# TEMPORARY EROSION AND SEDIMENT CONTROL NOTES

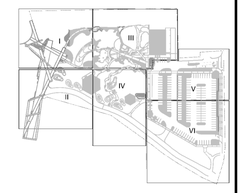
1. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS:
   (A) CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY ESC BMP'S.
   (B) INSTALL TEMPORARY ESC BMP'S, CONSTRUCTING SEDIMENT TRAPPING BMP'S AS ONE OF THE FIRST STEPS PRIOR TO GRADING.
   (C) CLEAR, GRUB AND ROUGH GRADE FOR ROADS, TEMPORARY ACCESS POINTS AND UTILITY LOCATIONS.
   (D) STABILIZE ROADWAY APPROACHES AND TEMPORARY ACCESS POINTS WITH THE APPROPRIATE CONSTRUCTION BMP.
   (E) CLEAR, GRUB, AND GRADE INDIVIDUAL AREAS OF WORK.
   (F) TEMPORARILY STABILIZE THROUGH RE_VEGETATION OR OTHER APPROPRIATE BMP'S, LOTS OR GROUPS OF LOTS IN SITUATIONS WHERE SUBSTANTIAL CUT OR FILL SLOPES ARE A RESULT OF THE SITE GRADING.
   (G) CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES (I.E. INLETS, PONDS, UIC FACILITIES, ETC.).
   (H) PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMP'S.
   (I) INSTALL PERMANENT ESC CONTROLS, WHEN APPLICABLE.
   (J) REMOVE TEMPORARY ESC CONTROLS WHEN:
2. PERMANENT ESC CONTROLS, WHEN APPLICABLE, HAVE BEEN COMPLETELY INSTALLED;
3. ALL LAND-DISTURBING ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION OR SEDIMENTATION PROBLEMS HAVE CEASED; AND,
4. VEGETATION HAD BEEN ESTABLISHED IN THE AREAS NOTED AS REQUIRING VEGETATION ON THE ACCEPTED ESC PLAN ON FILE WITH THE LOCAL JURISDICTION.
5. INSPECT ALL ROADWAYS, AT THE END OF EACH DAY, ADJACENT TO THE CONSTRUCTION ACCESS ROUTE. IF IT IS EVIDENT THAT SEDIMENT HAS BEEN TRACKED OFF SITE AND/OR BEYOND THE ROADWAY APPROACH, CLEANING IS REQUIRED.
6. IF SEDIMENT REMOVAL IS NECESSARY PRIOR TO STREET WASHING, IT SHALL BE REMOVED BY SHOVELING OR PICKUP SWEEPING AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
7. IF STREET WASHING IS REQUIRED TO CLEAN SEDIMENT TRACKED OFF SITE, ONE SEDIMENT HAS BEEN REMOVED, STREET WASH WATER SHALL BE CONTROLLED BY PUMPING BACK ON-SITE OR OTHERWISE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE.
8. RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION.
9. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICAL.
10. INSPECT SEDIMENT CONTROL BMPS WEEKLY AT A MINIMUM, DAILY DURING A STORM EVENT, AND AFTER ANY DISCHARGE FROM THE SITE (STORMWATER OR NON-STORMWATER). THE INSPECTION FREQUENCY MAY BE REDUCED TO ONCE A MONTH IF THE SITE IS STABILIZED AND INACTIVE.
11. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE STATE AND/OR LOCAL AIR QUALITY CONTROL AUTHORITIES WITH JURISDICTION OVER THE PROJECT AREA.
12. STABILIZE EXPOSED UNWORKED SOILS (INCLUDING STOCKPILES), WHETHER AT FINAL GRADE OR NOT, WITHIN 10 DAYS DURING THE REGIONAL DRY SEASON (JULY 1 THROUGH SEPTEMBER 30) AND WITHIN 5 DAYS DURING THE REGIONAL WET SEASON (OCTOBER 1 THROUGH JUNE 30). SOILS MUST BE STABILIZED AT THE END OF A SHIFT BEFORE A HOLIDAY WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. THIS TIME LIMIT MAY ONLY BE ADJUSTED BY A LOCAL JURISDICTION WITH A "QUALIFIED LOCAL PROGRAM," IF IT CAN BE DEMONSTRATED THAT THE RECENT PRECIPITATION JUSTIFIES A DIFFERENT STANDARD AND MEETS THE REQUIREMENTS SET FOURTH IN THE CONSTRUCTION STORMWATER GENERAL PERMIT.
13. PROTECT INLETS, DRYWELLS, CATCH BASINS AND OTHER STORMWATER MANAGEMENT FACILITIES FROM SEDIMENT, WHETHER OR NOT FACILITIES ARE OPERABLE.
14. KEEP ROADS ADJACENT TO INLETS CLEAN.
15. INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS.
16. CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE POND OR SWALES) BEFORE GRADING BEGINS. THESE FACILITIES SHALL BE OPERATIONAL BEFORE THE CONSTRUCTION OF IMPERVIOUS SITE IMPROVEMENTS.
17. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ON SITE, KEEPING OFF OF ROADWAY AND SIDEWALKS.
18. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NON-INERT WASTES PRESENT ON SITE FROM VANDALISM (SEE CHAPTER 173-304 WAC FOR THE DEFINITION OF INERT WASTE), USE SECONDARY CONTAINMENT FOR ON-SITE FUELING TANKS.
19. CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM REPAIRS, SOLVENT AND DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CLEAN ALL CONTAMINATED SURFACES IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. IF RAINING OVER EQUIPMENT OR VEHICLE, PERFORM EMERGENCY REPAIRS ON SITE USING TEMPORARY PLASTIC BENEATH THE VEHICLE.
20. CONDUCT APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER, AND AT APPLICATION RATES, THAT INHIBITS THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES. AMEND MANUFACTURER'S RECOMMENDED APPLICATION RATES AND PROCEDURES TO MEET THIS REQUIREMENT, IF NECESSARY.
21. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING/AFTER A RUNOFF PRODUCING STORM EVENT) AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMPS. NOTE THAT INLET PROTECTION DEVICES SHALL BE CLEANED OR REMOVED AND REPLACE BEFORE SIX INCHES OF SEDIMENT CAN ACCUMULATE.
22. REMOVE TEMPORARY ESC BMP'S WITHIN 30 DAYS AFTER THE TEMPORARY BMP'S ARE NO LONGER NEEDED. PERMANENTLY STABILIZE AREAS THAT ARE DISTURBED DURING THE REMOVAL PROCESS.

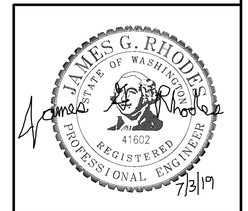
# GENERAL EROSION AND SEDIMENT CONTROL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL REVIEW ALL RELEVANT SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, CONTROL AND TESTING AND DISPOSAL OF SUSPECT MATERIALS, AND SITE GRADING, STOCKPILING, AND SEQUENCING OF THE WORK.
2. THE CONTRACTOR SHALL UPDATE, MODIFY, AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES TO MEET DISCHARGE LIMITS OUTLINED IN THE GENERAL CONSTRUCTION PERMIT.

811
*KNOW WHAT'S BELOW.*
*CALL 2 BUSINESS DAYS*
*BEFORE YOU DIG.*
*(UTILITY LOCATIONS ARE APPROX.)*

KEY PLAN




DIGITALLY SIGNED:

| BY | REVISIONS | DATE |
|---|---|---|

HDR | OSBORN CONSULTING INCORPORATED

LOCATION: BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84)
NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'

| ELEVATION 1734.64' @ CAP #CP9 | HORIZONTAL |
|---|---|
| CBM NO. 43N, 44W NAVD 88 | VERTICAL |
| CITY DATUM | SCALE |

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 — 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

| | | |
|---|---|---|
| 7.03.19 | DRAWN | JR |
| 7.03.19 | DESIGNED | JR/AN-B |
| 7.03.19 | CHECKED | JB |
| | APPROVED | |

CITY OF SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: TESC GENERAL NOTES SHEET
7.3.2019

DATE: Jun 28, 2019 - 2:07pm by: JRHODES

| TYPE OF IMPROVEMENT: | PARK |
|---|---|
| CITY PURCHASING NUMBER | DRAWING NUMBER |
| | SW 11.0 |
| P#: OF | REVISION NO.: |

FILE NAME:

# GENERAL STRUCTURAL NOTES

GENERAL:

THE STRUCTURAL CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE STRUCTURE IS DESIGNED TO BE A STABLE UNIT AS A COMPLETED WHOLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGN, ERECT AND INSPECT TEMPORARY SHORES, BRACES, ETC. TO SUPPORT THE STRUCTURE AGAINST ALL ANTICIPATED LOADS INCLUDING GRAVITY, WIND AND LATERAL EARTH PRESSURE UNTIL ITS COMPLETION. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THESE METHODS OF CONSTRUCTION. CONSTRUCTION MATERIAL SHALL BE PLACED ON FRAMED FLOORS AND ROOFS SUCH THAT THE DESIGN LIVE LOADS ARE NOT EXCEEDED.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO STARTING CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT.

WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODE AND TESTING STANDARDS.

NOTES AND DETAILS ON THE DRAWINGS TAKE PRECEDENCE OVER THE GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. "TYPICAL" DETAILS ARE NOT FLAGGED ON THE DRAWINGS, BUT APPLY UNLESS NOTED OTHERWISE.

ALL STRUCTURAL ENGINEERING DESIGN PROVIDED BY OTHERS SHALL BE SUBMITTED FOR REVIEW AND SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

COORDINATION:

ALL DRAWINGS ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE DRAWINGS AND SPECIFICATIONS AMONG THE SUBCONTRACTORS PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES THAT ARE FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.

COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFYING THE LOCATION AND WEIGHT OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT AS WELL AS THE SIZE AND LOCATION OF ALL MECHANICAL OPENINGS IN ROOFS, FLOORS AND WALLS. UNLESS OTHERWISE NOTED ON THE DRAWINGS, DO NOT PENETRATE ANY STRUCTURAL ELEMENTS SUCH AS BEAMS, COLUMNS, WALLS, SLABS, ETC. WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT.

SHOP DRAWINGS:

THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS PRIOR TO ENGINEERING REVIEW.

SPECIAL INSPECTIONS:

THE OWNER WILL EMPLOY AN ICC CERTIFIED SPECIAL INSPECTOR TO PROVIDE INSPECTION OF THE FOLLOWING ITEMS PER IBC CHAPTER 17 AND THE REQUIREMENTS OF THE APPROPRIATE LOCAL JURISDICTION:

CONCRETE AND REINFORCING STEEL: PER IBC TABLE 1705.3

STRUCTURAL MASONRY: LEVEL B QUALITY ASSURANCE PER MSJC TABLE 1.19.2

STEEL: PER IBC TABLE 1705.2.2 AND AISC CHAPTER N

WELDING: PER AISC TABLE N5.4 AND IN COMPLIANCE WITH AWS D1.1

HIGH STRENGTH BOLTING: PER AISC TABLE N5.6

STEEL DETAILS: PER AISC CHAPTER N

SOILS: PER IBC TABLE 1705.6

CODE:

2015 EDITION OF THE INTERNATIONAL BUILDING CODE.

DESIGN LOADS:

| | |
|---|---|
| ROOF DEAD LOAD | 15 PSF |
| ROOF SNOW LOAD | SEE SNOW LOADS BELOW |
| FLOOR LIVE LOAD | 125 PSF |
| MEZZANINE LIVE LOAD | 125 PSF |
| STAIR LIVE LOAD | 100 PSF |
| RISK CATEGORY | II |

WIND:

| | |
|---|---|
| BASIC WIND SPEED | 110 MPH |
| EXPOSURE CATEGORY | "B" |
| INTERNAL PRESSURE COEFFICIENT GCpi | +/- 0.18 |
| COMPONENT AND CLADDING WIND PRESSURE | 29 PSF (STRENGTH LEVEL) |
| NET UPLIFT ON ROOF | 23 PSF (STRENGTH LEVEL) |

SEISMIC:

| | |
|---|---|
| IMPORTANCE FACTOR (Ie) | 1.0 |
| Sds | 0.266 |
| Sd1 | 0.129 |
| Ss | 0.332 |
| S1 | 0.115 |
| SEISMIC DESIGN CATEGORY | C |
| SITE CLASS | C |
| DESIGN BASE SHEAR | 99.0 K (STRENGTH LEVEL) |
| ANALYSIS PROCEDURE | EQUIVALENT LATERAL FORCE |

SEISMIC FORCE RESISTING SYSTEM: ORDINARY REINFORCED MASONRY SHEARWALLS (R=2)
STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE (MEZZANINE FRAME R = 3)

SNOW:

| | |
|---|---|
| GROUND SNOW LOAD | 39 PSF |
| FLAT ROOF SNOW LOAD | 30 PSF |
| SNOW EXPOSURE FACTOR | 1.0 |
| SNOW LOAD IMPORTANCE FACTOR (Is) | 1.0 |
| THERMAL FACTOR | 1.0 |

FOUNDATION:

ALLOWABLE SOIL BEARING PRESSURE = 10,000 PSF PER GEOTECHNICAL REPORT BY GEOENGINEERS, DATED FEBRUARY 8, 2019. BEAR ALL FOOTINGS ON INORGANIC, UNDISTURBED SOIL OR ON CONTROLLED, COMPACTED FILL. MINIMUM FOOTING DEPTH SHALL BE 24" FOR EXTERIOR FOOTING AND 12" FOR INTERIOR FOOTINGS BELOW FINISH GRADE.

DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS REACHED FULL DESIGN STRENGTH. WALLS BELOW GRADE SHALL BE BRACED AS REQUIRED TO RESIST LATERAL EARTH PRESSURE UNTIL CONNECTING FLOORS OR ROOFS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. THE CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.

| | |
|---|---|
| AT-REST LATERAL EARTH PRESSURE | 55 PCF |
| ACTIVE LATERAL EARTH PRESSURE | 35 PCF |
| PASSIVE LATERAL EARTH PRESSURE | 250 PCF |
| COEFFICIENT OF FRICTION | 0.35 |

MICRO PILES:

MICRO PILE CONSTRUCTION SHALL CONFORM TO IBC SECTION 1810. MATERIALS SHALL CONFORM TO THE CONCRETE AND REINFORCING STEEL SECTIONS OF THE GENERAL STRUCTURAL NOTES. INSTALL MICRO PILES PER GEOTECH RECOMMENDATIONS. PILE SHAPE SHALL BE AS NOTED ON THE FOUNDATION DRAWINGS. TEST PILES ARE REQUIRED FOR THIS PROJECT TO VERIFY PILE CAPACITIES. PILE CAPACITIES SHALL BE AS INDICATED ON PLAN. LOADS INDICATED ON PLAN ARE ASD.

DESIGN PILES USING A MINIMUM FACTOR OF SAFETY OF 2.5. PILES MUST BE EMBEDDED A MINIMUM OF 5'-0" INTO BEDROCK. LOAD TESTING OF AT LEAST ONE PILE LOCATED 15'-0" MAXIMUM FROM FOUNDATION SHALL BE DONE PRIOR TO FULL SCALE PILE PRODUCTION. FOR FURTHER TESTING REQUIREMENTS SEE THE LOAD TESTING SECTION OF THE GEOTECHNICAL REPORT.

CONCRETE:

CONCRETE CONSTRUCTION SHALL CONFORM WITH THE LATEST EDITION OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". SUBMIT MIX DESIGNS FOR EACH CLASS OF CONCRETE. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE UNLESS NOTED OTHERWISE.

CONCRETE CONTAINING SUPERPLASTICIZING ADMIXTURE SHALL HAVE A SLUMP NOT EXCEEDING 3", TO BE FIELD VERIFIED, PRIOR TO ADDING ADMIXTURE, AND NOT EXCEEDING 8" AT PLACEMENT. ADDITION OF WATER TO A MIX WITH INSUFFICIENT SLUMP WILL NOT BE PERMITTED, EXCEPT AS ALLOWED PER ASTM C494.

MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDER-FLOOR DUCTS, ETC. CAST CLOSURE POUR AROUND COLUMNS AFTER DEAD LOAD IS APPLIED.

MINIMUM CONCRETE MIX DESIGN REQUIREMENTS SHALL BE AS FOLLOWS:

| ITEM | MINIMUM CEMENT CONTENT (SACKS/CY) | 28 DAY STRENGTH F'c (PSI) | MAX. SIZE AGGREGATE | AIR ENTR. | MAX. SLUMP |
|---|---|---|---|---|---|
| GRADE BEAMS, FOOTINGS AND RETAINING WALLS | 5 | 3500 | 1 1/2" | 5-7% | 3" |
| INTERIOR SLAB ON GRADE | 5 1/2 | 4000 | 1" | 2% | 4" |
| CONC OVER METAL DECK | 5 1/2 | 3050 | ¾" | 2% | 4" |

MASONRY:

HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N-1, MEDIUM WEIGHT, RUNNING BOND.

MORTAR SHALL CONFORM TO ASTM C270, TYPE S, 1900 PSI MIN. MASONRY CEMENT SHALL NOT BE USED.

GROUT SHALL CONFORM TO ASTM C476, 2000 PSI MIN. MECHANICALLY VIBRATE GROUT IN VERTICAL SPACES IMMEDIATELY AFTER POURING. PROVIDE CLEANOUTS IF GROUT POUR HEIGHT EXCEEDS 5'-4". MAXIMUM GROUT LIFT SHALL BE 5'-4". FOR GROUT KEYS LEFT BETWEEN LIFTS, SEE REQUIREMENTS OF THE LATEST EDITION OF "THE SPECIFICATION FOR MASONRY STRUCTURES", SECTION 3.5F. ALL UNITS BELOW GRADE SHALL BE SOLID GROUTED. FOR SELF-CONSOLIDATING GROUT, SEE REQUIREMENTS OF THE LATEST EDITION OF "THE SPECIFICATION FOR MASONRY STRUCTURES", UNO

SPECIFIED COMPRESSIVE STRENGTH f'm SHALL BE 1500 PSI. SPECIAL INSPECTION IS REQUIRED. VERIFICATION OF THE SPECIFIED COMPRESSIVE STRENGTH SHALL BE IN ACCORDANCE WITH IBC SECTION 2105.

UNLESS NOTED OTHERWISE, PLACE CONTROL JOINTS IN MASONRY WALLS AT A MAXIMUM SPACING EQUAL TO THREE TIMES THE WALL HEIGHT, BUT NOT TO EXCEED 40 FEET, ONE-HALF CONTROL JOINT SPACING FROM BUILDING CORNERS, AND A MINIMUM OF 2'-8" FROM THE INSIDE FACE OF OPENINGS.

REINFORCING STEEL:

DEFORMED BARS: ASTM A615 GRADE 40 FOR #3 AND GRADE 60 FOR #4 AND LARGER.

CLEAR CONCRETE COVERAGE (APPLIES UNLESS NOTED OTHERWISE):

| | |
|---|---|
| CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | 3" |
| FORMED CONCRETE EXPOSED TO EARTH OR WEATHER | 2" |
| FORMED CONCRETE NOT EXPOSED TO EARTH OR WEATHER | 1½" |
| FROM TOP SURFACE OF SLAB ON GRADE | 1½" |

WELDING:

WELDING OF REINFORCING STEEL IS PROHIBITED. LAP SPLICES IN CONCRETE: UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, WALLS, SLABS AND FOOTINGS SHALL BE CLASS "B" TENSION LAP SPLICES. STAGGER ALTERNATE SPLICES A MINIMUM OF ONE LAP LENGTH.

PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF FOOTINGS AND WALLS. SPACING SHOWN FOR REINFORCING BARS ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. SECURELY TIE ALL BARS IN POSITION PRIOR TO PLACING CONCRETE.

HORIZONTAL REINFORCING (APPLIES UNLESS NOTED OTHERWISE):

PROVIDE (1) #5 BAR IN MINIMUM 8" DEEP GROUTED CONTINUOUS BOND BEAM AT 32" OC AND AT BOTTOM OF WALL, TOP OF PARAPET, OR TOP OF FREESTANDING WALL. PROVIDE (2) #5 BARS IN MINIMUM 8" DEEP GROUTED CONTINUOUS BOND BEAM AT ELEVATED FLOOR AND ROOF LINES. PLACE THESE BARS CONTINUOUS THROUGH CONTROL JOINTS AT ROOF AND FLOOR LINES AND WRAP MASTIC TAPE FOR 1'-6" EACH SIDE OF CONTROL JOINT. AT OTHER LOCATIONS, DISCONTINUE HORIZONTAL REINFORCING AT CONTROL JOINTS. PROVIDE BENT BARS TO MATCH HORIZONTAL BOND BEAM REINFORCING AT CORNERS AND WALL INTERSECTIONS IN ORDER TO MAINTAIN BOND BEAM CONTINUITY. LAP SPLICES SHALL BE 48 BAR DIAMETERS. STAGGER ALTERNATE SPLICES A MINIMUM OF 48 BAR DIAMETERS.

DEFERRED SUBMITTALS:

THE FOLLOWING PORTIONS OF THE DESIGN ARE NOT SUBMITTED TO THE BUILDING OFFICIAL AT THE TIME OF PERMIT APPLICATION BUT SHALL BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION, AFTER ENGINEERING REVIEW. THE DEFERRED SUBMITTALS FOR THIS PROJECT ARE:

1. OPEN WEB STEEL JOIST AND GIRDER STAMPED AND SIGNED DESIGN DRAWINGS AND CALCULATIONS.
2. BIDDER DESIGNED STEEL STAIRS STAMPED AND SIGNED DESIGN DRAWINGS & CALCULATIONS.
3. MICRO PILE STAMPED AND SIGNED DESIGN CALCULATIONS.

STRUCTURAL STEEL:

ROLLED SHAPES OTHER THAN WIDE-FLANGE SHAPES,

| | |
|---|---|
| ALL PLATES, BARS AND RODS | ASTM A36, Fy = 36 KSI |
| ALL WIDE-FLANGE SHAPES | ASTM A992, Fy = 50 KSI |
| TUBULAR STEEL | ASTM A500, GRADE B, Fy = 46 KSI |
| PIPE STEEL | ASTM A53, Fy = 35 KSI |
| BOLTS | ASTM F3125, GRADE A325 |
| ANCHOR BOLTS | ASTM F1554 GRADE 36 |
| DEFORMED BAR ANCHORS | ASTM A496, Fy = 70 KSI |
| HEADED ANCHOR STUDS | ASTM A108-69T, Fy = 50 KSI |
| EXPANSION BOLTS (CONCRETE) | HILTI BOLT - TZ |
| EPOXY ANCHORS (CONCRETE) | HILTI HY-200 + HIT-Z ROD, UNO |
| EXPANSION BOLTS (MASONRY) | HILTI KWIK BOLT 3 |
| EPOXY ANCHORS (MASONRY) | HILTI HIT-HY70 + GRADE 36 CLEAN THREADED ROD, UNO |
| POWDER ACTUATED FASTENERS (SHOT PINS) | HILTI X-DN PINS |
| CLEVISES | ASTM A108 GRADE 1035 |

FABRICATION AND ERECTION:

LATEST AISC AND AWS CODES APPLY. FABRICATE AND ERECT IN ACCORDANCE WITH LATEST EDITION OF AISC "SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". SPLICING OF STRUCTURAL MEMBERS IS NOT PERMITTED UNLESS NOTED ON THE DRAWINGS. ALL BEAMS SHALL BE ERECTED WITH THE NATURAL CAMBER UPWARDS.

WELDING:

ALL WELDING SHALL BE BY CERTIFIED WELDERS HAVING CURRENT EXPERIENCE IN TYPE OF WELD SHOWN ON DRAWINGS OR NOTES. CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED TESTING AGENCY. ALL WELDING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS D1.1 "STRUCTURAL WELDING CODE - STEEL" OR ALTERNATE AWS CODES AS APPLICABLE. ALL STRUCTURAL WELDING PROCESSES SHALL MEET THE H2 LOW HYDROGEN CRITERIA OF AWS D1.1 ANNEX I UNLESS OTHERWISE NOTED. USE 70XX ELECTRODES OR EQUIVALENT WIRE. SHOP WELDS AND FIELD WELDS SHALL BE SHOWN ON SHOP DRAWINGS. ALL COMPLETE PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING AGENCY. ALL DEFORMED BAR ANCHORS, HEADED STUDS AND THREADED STUDS SHALL BE END WELDED PER MANUFACTURER'S RECOMMENDATIONS.

BOLTS:

ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC., SHALL BE INSTALLED WITH STEEL WASHERS. TYPE N BOLTS PER LATEST EDITION OF AISC "SPECIFICATION FOR STRUCTURAL JOINTS HIGH-STRENGTH BOLTS" AND MAY BE TIGHTENED TO THE SNUG-TIGHT CONDITION AS DEFINED BY AISC UNLESS NOTED OTHERWISE. HILTI BOLTS AND ANCHORS MAY BE SUBSTITUTED WITH AN APPROVED ICC RATED PRODUCT.

OPEN WEB STEEL JOISTS AND JOIST GIRDERS:

ALL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE'S LATEST EDITIONS OF "STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS K, LH AND DLH SERIES" AND "STANDARD SPECIFICATIONS FOR JOIST GIRDERS".

JOISTS AND JOIST GIRDERS SHALL BE DESIGNED FOR THE LOADS SHOWN ON THE DRAWINGS. MECHANICAL EQUIPMENT WEIGHTS SHOWN ON THE STRUCTURAL DRAWINGS HAVE NOT BEEN INCLUDED IN THE JOIST AND JOIST GIRDER LOAD DESIGNATIONS. THE JOIST MANUFACTURER SHALL INCLUDE ALL MECHANICAL EQUIPMENT WEIGHTS AS ADDITIONAL LOADS TO BE SUPPORTED BY THE JOISTS AND JOIST GIRDERS WHERE APPLICABLE.

JOIST MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR REVIEW PRIOR TO FABRICATION. PROVIDE SEALED CALCULATIONS BY A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE WHICH THE PROJECT IS LOCATED FOR ALL JOISTS AND JOIST GIRDERS. PROVIDE CALCULATIONS FOR ALL JOIST SHOES WITH BEARING LENGTHS LESS THAN 2 1/2" AT K SERIES JOISTS OR 4" AT LH SERIES JOISTS. CALCULATIONS SHALL INCLUDE DEFLECTION AND CAMBER REQUIREMENTS. MINIMUM CAMBER FOR ALL JOISTS AND JOIST GIRDERS SHALL BE AS STATED IN THE STEEL JOIST INSTITUTE SPECIFICATIONS.

MANUFACTURER SHALL PROVIDE SLOPED BEARING SEATS AS REQUIRED. MANUFACTURER SHALL ADD WEB MEMBERS AS REQUIRED TO ACCOUNT FOR CONCENTRATED LOADS AND ADJUST CHORD AND WEB SIZES ACCORDINGLY. ALL CONCENTRATED LOADS TO STEEL JOISTS SHALL OCCUR WITHIN 6" OF A PANEL POINT UNLESS ADDITIONAL JOIST REINFORCING IS PROVIDED. WHERE CROSS BRIDGING INTERFERES WITH MECHANICAL INSTALLATIONS, REMOVE THIS CROSS BRIDGING AFTER ROOF/FLOOR IS IN PLACE AND REPLACE WITH HORIZONTAL ANGLES 2" X 2" X 3/16" AT TOP AND BOTTOM CHORDS.

THE SHOP DRAWINGS AND CALCULATIONS SHALL INCLUDE ALL FIELD SPLICED CONNECTIONS. ALL HIGH STRENGTH BOLTS OR COMPLETE PENETRATION WELDS THAT ARE USED IN THESE CONNECTIONS SHALL BE TESTED BY AN INDEPENDENT TESTING AGENCY TO VERIFY COMPLIANCE WITH AISC AND AWS SPECIFICATIONS, RESPECTIVELY.

STEEL DECK:

ROOF:

B DECK: 1 1/2" X 20 GAGE GALVANIZED DECK WITH SHEET WIDTH = 36", MINIMUM I = 0.216 IN^4, MINIMUM +S = 0.235 IN^3.

FLOOR:

W3 FORMLOK: 3" X 20 GAGE GALVANIZED DECK WITH SHEET WIDTH = 36", MINIMUM I = 0.896 IN^4, MINIMUM +S = 0.534 IN^3.

ALL STEEL DECK SHALL CONFORM TO ASTM A653, GRADE A OR BETTER AND SHALL HAVE CURRENT ICC APPROVAL. GALVANIZE ALL DECK IN ACCORDANCE WITH ASTM A924 G60.

CONNECT DECK TO SUPPORTING MEMBERS AS SHOWN ON THE DRAWINGS. ALL WELDING SHALL BE PERFORMED BY WELDERS WITH EXPERIENCE IN LIGHT GAGE STEEL DECK WORK. ALL WELDING DONE BY E60 (MINIMUM) SERIES LOW HYDROGEN RODS. PROVIDE SHEET LENGTHS TO BE CONTINUOUS FOR 3 OR MORE SPANS. THE FIRST SHEET OF DECK ADJACENT AND PARALLEL TO WALLS, PERIMETER MEMBERS OR MEMBERS IDENTIFIED AS CHORD, COLLECTOR OR DRAG MEMBERS (ON ONE OR BOTH SIDES AS APPLICABLE) SHALL BE FULL PANEL WIDTH SHEETS. PROVIDE SHOP DRAWING LAYOUT FOR REVIEW.

PRE-ENGINEERED STEEL STAIRS:

ALL ENGINEERING DESIGN AND DETAILING PROVIDED BY THE STAIR FABRICATOR AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. STAIR FABRICATOR SHALL PROVIDE DESIGN FOR ALL STAIR FRAMING, RAILINGS AND OTHER STAIR COMPONENTS AND THEIR ATTACHMENTS TO EACH OTHER AND TO THE MAIN BUILDING STRUCTURE. MAGNITUDES AND LOCATIONS OF REACTIONS FROM STAIR CONNECTIONS TO THE MAIN BUILDING STRUCTURE SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW. ALL STAIRS SHALL BE DESIGNED TO SUPPORT THE STAIR DEAD AND LIVE LOADS STATED IN THE GENERAL STRUCTURAL NOTES OR ON THE PLANS. DESIGN STAIRS FOR LATERAL FORCE (Fp) PER CHAPTER 13 OF ASCE 7-10 WITH ap=1.0 AND Rp=2.5. STAIR DESIGN MUST ACCOUNT FOR DEFORMATION COMPATIBILITY PER ASCE 7-10 SECTION 12.12.5. AND MUST MEET DESIGN INTENT SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS

COLD-FORMED STEEL:

ALL COLD-FORMED STEEL FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

STEEL FOR ALL 54 MIL OR GREATER STUDS AND JOISTS, TRACK AND ALL THICKNESS OF DIAGONAL TENSION STRAPS SHALL HAVE A MINIMUM YIELD STRENGTH Fy = 50 KSI. STEEL FOR ALL 43 AND 33 MIL STUDS AND JOISTS, TRACK, AND ALL THICKNESS OF BRIDGING AND ACCESSORIES SHALL HAVE A MINIMUM YIELD STRENGTH Fy = 33 KSI.

STEEL SHALL BE GALVANIZED AT LOCATIONS EXPOSED TO WEATHER AND WHENEVER NOTED ON THE DRAWINGS IN ACCORDANCE WITH ASTM A653, GRADE D, FOR Fy = 50 KSI AND ASTM A653, GRADE A, FOR Fy = 33 KSI.

ALL STUDS SHALL BE SEATED TIGHT AND SQUARELY FOR FULL END BEARING ON TOP AND BOTTOM TRACK, WITH A MAXIMUM GAP OF ¼" BETWEEN THE END OF THE STUD AND THE TRACK. SPLICING OF STUDS SHALL NOT BE PERMITTED. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE STUDS AT ALL BEAM BEARINGS, JAMBS, WALL CORNERS AND INTERSECTIONS. UNLESS NOTED OTHERWISE, ALL TRACK SHALL BE OF THE SAME MATERIAL AND GAGE AS THE STUDS. BRIDGING SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS WITH THE FOLLOWING MINIMUM REQUIREMENTS:

FOR NON-BEARING WALLS, PROVIDE BRIDGING AT MID-HEIGHT FOR WALLS LESS THAN OR EQUAL TO 10'-0" HIGH AND 5'-0" OC MAXIMUM FOR WALLS GREATER THAN 10'-0" HIGH. FOR BEARING WALLS, PROVIDE BRIDGING EQUALLY SPACED AT 4'0" OC. MAXIMUM. IN ADDITION, BRIDGING SHALL BE PROVIDED AT ROOF LINES, FLOOR LINES AND ELSEWHERE AS SHOWN ON THE DRAWINGS. SOLID BLOCKING SHALL BE INSTALLED IN LIEU OF BRIDGING WHERE NOTED ON THE DRAWINGS.

ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS EXPERIENCED IN LIGHTGAGE STEEL FRAMING WORK. USE E60 (MINIMUM) SERIES LOW HYDROGEN RODS.

STUDS SHOWN ARE NOTED USING STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) DESIGNATIONS AND SHALL MEET THE MINIMUM REQUIREMENTS SHOWN IN THE LATEST EDITION OF THE SSMA CATALOG.

DAVID L. PEDEN
STATE OF WASHINGTON
27251
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
5.2.19

DIGITALLY SIGNED:

| BY | REVISIONS | DATE |
|---|---|---|
| | | |

COFFMAN ENGINEERS
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LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION
ELEVATION SEE SHEET V1.0 | HORIZONTAL NTS
CBM NO. N/A NAVD 88 | VERTICAL --
CITY DATUM | SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 — 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

| | | |
|---|---|---|
| 5.02.2019 | DRAWN | CEP |
| 5.02.2019 | DESIGNED | KGU |
| 5.02.2019 | CHECKED | KGU |
| 5.02.2019 | APPROVED | DLP |

CITY OF SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: STRUCTURAL NOTES
7.3.2019

TYPE OF IMPROVEMENT: PARK
CITY PURCHASING NUMBER | DRAWING NUMBER
S1.1
PR: OF | REVISION NO.:

DATE: Jul 03, 2019 - 10:36am by: pedersen
FILE NAME:

# STANDARD STRUCTURAL ABBREVIATIONS

| ABBR | DESCRIPTION |
|---|---|
| (A) | ABOVE |
| AB | ANCHOR BOLT |
| AC | ASPHALT CONCRETE |
| ACI | AMERICAN CONCRETE INSTITUTE |
| ADDL | ADDITIONAL |
| ADH | ADHESIVE |
| ADJ | ADJACENT |
| ADESS | ARCHITECTURALLY EXPOSED STRUCTURAL STEEL |
| AFF | ABOVE FINISHED FLOOR |
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION |
| AISI | AMERICAN IRON AND STEEL INSTITUTE |
| ALT | ALTERNATE |
| ALUM | ALUMINUM |
| ARCH | ARCHITECTURAL |
| ASPH | ASPHALT |
| ASCE | AMERICAN SOCIETY OF CIVIL ENGINEERS |
| ASNT | AMERICAN SOCIETY OF NON-DESTRUCTIVE TESTING |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS |
| AWS | AMERICAN WELDING SOCIETY |
| | |
| (B) | BELOW |
| BLKG | BLOCKING |
| BLDG | BUILDING |
| BOC | BOTTOM OF CONCRETE |
| BOD | BOTTOM OF DECKING |
| BOS | BOTTOM OF STEEL |
| BOT | BOTTOM |
| BP | BASE PLATE |
| BRNG | BEARING |
| BS | BOTH SIDES |
| BTWN | BETWEEN |
| | |
| CANT | CANTILEVER |
| CBF | CONCENTRIC BRACED FRAME |
| CFS | COLD FORMED STEEL |
| CHAN | CHANNEL |
| CIP | CAST IN PLACE |
| CJ | CONTROL OR CONSTRUCTION JOINT |
| CJP | COMPLETE JOINT PENETRATION |
| CL | CENTER LINE |
| CLR | CLEAR, CLEARANCE |
| CM | CUBIC METER |
| CMP | CORRUGATED METAL PIPE |
| CMU | CONCRETE MASONRY UNIT |
| COL | COLUMN |
| CONC | CONCRETE |
| CONN | CONNECTION |
| CONST | CONSTRUCTION |
| CONT | CONTINUOUS |
| CONTR | CONTRACTOR |
| COORD | COORDINATE |
| CP | COMPLETE PENETRATION |
| CTR | CENTER, CENTERED |
| CY | CUBIC YARD |
| | |
| D | BEAM DEPTH |
| DP | DEEP |
| DBA | DEFORMED BAR ANCHOR |
| DBL | DOUBLE |
| DEG | DEGREE |
| DEMO | DEMOLITION |
| DET | DETAIL |
| DIAA | DRILLED IN ADHESIVE ANCHOR |
| DIAG | DIAGONAL |
| DIAM,Ø | DIAMETER |
| DIEA | DRILLED IN EXPANSION ANCHOR |
| DIM | DIMENSION |
| DISA | DRILLED IN SCREW ANCHOR |
| DIST | DISTANCE |
| DN | DOWN |
| DO | DITTO |
| DWG | DRAWING(S) |
| DWL | DOWEL |

| ABBR | DESCRIPTION |
|---|---|
| E | EAST, MODULUS OF ELASTICITY |
| (E) | EXISTING |
| EA | EACH |
| EF | EACH FACE |
| EJ | EXPANSION JOINT |
| EL | ELEVATION |
| ELEC | ELECTRICAL |
| ELEV | ELEVATION OR ELEVATOR |
| EMBED | EMBEDMENT |
| ENGR | ENGINEER |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| ES | EACH SIDE |
| ESC | ESCALATOR |
| EW | EACH WAY |
| EXIST | EXISTING |
| EXP | EXPANSION, EXPOSURE |
| EXT | EXTERIOR |
| | |
| F'c | CONCRETE COMPRESSIVE STRENGTH |
| FCAW | FLUX CORED ARCH WELDING |
| FDN | FOUNDATION |
| FEMA | FEDERAL EMERGENCY MANAGEMENT AGENCY |
| FIN | FINISH |
| FLG | FLANGE |
| F'm | CONCRETE MASONRY COMPRESSIVE STRENGTH |
| FLR | FLOOR |
| FP | FIREPROOFING, FULL PENETRATION |
| FRD | FACILITIES REQUIREMENTS DOCUMENT |
| FS | FAR SIDE |
| FT | FEET OR FOOT |
| FTG | FOOTING |
| | |
| GA | GAGE OR GAUGE |
| GALV | GALVANIZED |
| GEN | GENERAL |
| GLB | GLUED LAMINATED BEAM |
| GR | GRADE |
| GWB | GYPSUM WALLBOARD |
| GYP | GYPSUM |
| | |
| H | HIGH |
| HAS | HEADED ANCHOR STUD |
| HDR | HEADER |
| HGR | HANGER |
| HORIZ | HORIZONTAL |
| HS | HEADED STUD |
| HSB | HIGH STRENGTH BOLT |
| HSS | HOLLOW STRUCTURAL SECTION |
| HT | HEIGHT |
| HVAC | HEATING/VENTILATING/AIR CONDITIONING |
| | |
| I | MOMENT OF INERTIA |
| IBC | INTERNATIONAL BUILDING CODE |
| ICBO | INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS |
| ICC | INTERNATIONAL CODE COUNCIL |
| ID | INSIDE DIAMETER |
| IE | INVERT ELEVATION |
| IF | INSIDE FACE |
| IJ | ISOLATION JOINT |
| IN | INCHES |
| INFO | INFORMATION |
| INSUL | INSULATE, INSULATION |
| INV | INVERT |
| | |
| J | JOULES |
| JST | JOIST |
| JT | JOINT |
| | |
| K | KIP (1,000 POUNDS) |
| KSI | KIPS PER SQUARE INCH |

| ABBR | DESCRIPTION |
|---|---|
| L | LENGTH |
| LB | POUND |
| LD | REINF DEVELOPMENT LENGTH |
| LDh | REINF DEVELOPMENT LENGTH (HOOKED BARS) |
| LLH | LONG LEG HORIZONTAL |
| LLV | LONG LEG VERTICAL |
| LO | LOW |
| LOC | LOCATION |
| Ls | REINF TENSION LAP SPLICE |
| LS | LANDSCAPE |
| LSH | LONG SLOTTED HOLE |
| LT | LIGHT |
| LVF | LOW VELOCITY FASTENER |
| LVL | LEVEL, LAMINATED VENEER LUMBER |
| | |
| M | METER |
| MAS | MASONRY |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MEZZ | MEZZANINE |
| MF | MOMENT FRAME |
| MFR | MANUFACTURER |
| MH | MANHOLE |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MM | MILLIMETER |
| MT | MAGNETIC PARTICLE TEST |
| | |
| (N) | NEW |
| N | NORTH |
| NA | NOT APPLICABLE |
| NAAMM | NATIONAL ASSOCIATION OF ARCH METAL MANUFACTURERS |
| NFS | NON FROST SUSCEPTABLE |
| NIC | NOT IN CONTRACT |
| NIP | NOT IN PERMIT |
| NO | NUMBER |
| NORM | NORMAL |
| NS | NEAR SIDE |
| NTS | NOT TO SCALE |
| | |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OF | OUTSIDE FACE |
| OH | OPPOSITE HAND |
| OPNG | OPENING |
| OPP | OPPOSITE |
| OVS | OVERSIZE |
| OWJ | OPEN WEB JOIST |
| | |
| PAF | POWDER ACTUATED FASTENER |
| PC | PRECAST |
| PCF | POUND PER CUBIC FOOT |
| PEN | PENETRATION |
| PIL | PILASTER |
| PJP | PARTIAL JOINT PENETRATION |
| PL | PLATE |
| PLCS | PLACES |
| PLWD | PLYWOOD |
| PLF | POUNDS PER LINEAR FOOT |
| PLWD | PLYWOOD |
| PNL | PANEL |
| PP | PARTIAL PENETRATION |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PT | POINT, PENETRANT TEST, POINT OF TANGENCY<br>PRESSURE TREATED |
| | |
| R | RADIUS |
| RAD | RADIUS |
| RD | ROOF DRAIN |
| REF | REFERENCE |
| REINF | REINFORCE, REINFORCING |
| REQD | REQUIRED |
| RO | ROUGH OPENING |
| RT | RADIOGRAPHIC TEST |

| ABBR | DESCRIPTION |
|---|---|
| S | SOUTH, SECTION MODULUS |
| SB | STRAP BEAM |
| SC | SLIP CRITICAL |
| SCBF | SPECIAL CONCENTRIC BRACED FRAME |
| SCHD | SCHEDULE |
| SD | SNOW DRIFT |
| SDI | STEEL DECK INSTITUTE |
| SEC | SECTION |
| SFRS | SEISMIC FORCE RESISTING SYSTEM |
| SHT | SHEET |
| SHTG | SHEATHING |
| SIM | SIMILAR |
| SJ | SEISMIC JOINT |
| SJ | SLAB JOINT |
| SJRO | SEISMIC JOINT ROUGH OPENING |
| SL | SLOPE |
| SLB | SNOW LOAD, BALANCED |
| SLRS | SEISMIC LOAD RESISTING SYSTEM |
| SMAW | SHIELDED METAL ARC WELDING |
| SOG | SLAB ON GRADE |
| SPCS | SPACES |
| SPEC | SPECIFICATION |
| SQ | SQUARE |
| SS | STAINLESS STEEL |
| SSH | SHORT SLOTTED HOLE |
| SSMA | STEEL STUD MANUFACTURERS ASSOCIATION |
| STD | STANDARD |
| STIFF | STIFFENER |
| STL | STEEL |
| STRUCT | STRUCTURAL |
| SW | SHEAR WALL |
| SYM | SYMMETRICAL |
| | |
| TBC | THREADED BAR COUPLER |
| TBD | TO BE DETERMINED |
| TBR | TO BE REMOVED |
| TC | TENSION/COMPRESSION CHORD |
| TEMP | TEMPORARY, TEMPERATURE |
| Tf | FLANGE THICKNESS |
| THK | THICK |
| TL | TOTAL LOAD |
| T.A. | TOP OF |
| TOC | TOP OF CONCRETE |
| TOD | TOP OF DECKING |
| TOF | TOP OF FOOTING |
| TOS | TOP OF STEEL, TOP OF SLAB |
| TOW | TOP OF WALL |
| TS | TUBE STEEL |
| Tw | WEB THICKNESS |
| TYP | TYPICAL |
| T&B | TOP AND BOTTOM |
| | |
| UBC | UNIFORM BUILDING CODE |
| UNO | UNLESS NOTED OTHERWISE |
| UT | ULTRASONIC TESTING |
| | |
| VERT | VERTICAL |
| | |
| W | WIDTH, WEST, WIDE FLANGE DESIGNATION |
| WF | WIDE FLANGE |
| WHS | WELDED HEADED STUD |
| WP | WORK POINT, WATER PROOFING |
| WT | WEIGHT |
| WWF | WELDED WIRE FABRIC |
| W/ | WITH |
| W/C | WATER/ CEMENT RATIO |
| W/CM | WATER/ CEMENTITIOUS MATERIALS RATIO |
| W/O | WITHOUT |

# DRAWING INDEX



# GENERAL LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| A / B | DETAIL SYMBOL: A = IDENTIFYING NUMBER; B = SHEET WHERE DETAIL IS SHOWN |
| A / B \| C | DETAIL SYMBOL: A = IDENTIFYING NUMBER; B = SHEET WHERE DETAIL IS TAKEN; C = SHEET WHERE DETAIL IS SHOWN |
| A / B | SECTION SYMBOL: A = IDENTIFYING LETTER; B = SHEET WHERE SECTION IS SHOWN |
| A / B \| C | SECTION SYMBOL: A = IDENTIFYING LETTER; B = SHEET WHERE SECTION IS TAKEN; C = SHEET WHERE SECTION IS SHOWN |
| | SECTION CUT LINE INDICATOR |
| | ELEVATION SYMBOL |
| 1 | REVISION CLOUD AND REVISION NUMBER |
| | INDICATES STEP IN ELEVATION |
| S — — S | INDICATES STEP IN FOOTING ELEVATION |
| | INDICATES DECK SPAN DIRECTION |
| | INDICATES MOMENT CONNECTION |
| | CMU (CONCRETE MASONRY UNIT) WALL (PLAN VIEW) |
| | INDICATES DIAGONAL BRACING (PLAN VIEW) |
| X | INDICATES FOOTING MARK, SEE PLAN AND SCHEDULE |
| 1 | INDICATES PIER/PEDESTAL MARK, SEE PLAN AND SCHEDULE |
| XXX | INDICATES SHEAR WALL MARK, SEE PLAN AND SCHEDULE |
| GB1 | INDICATES GRADE BEAM MARK, SEE PLAN AND SCHEDULE |

DAVID L. PEDEN — STATE OF WASHINGTON — 27251 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

5.2.19

DIGITALLY SIGNED:

| BY | REVISIONS | DATE |
|---|---|---|
| | | |


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Spokane, WA 99201
**ph 509.328.2994**
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| ELEVATION | SEE SHEET V1.0 | HORIZONTAL | NTS |
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| CBM NO. | N/A<br>NAVD 88 | VERTICAL | -- |
| CITY DATUM | | SCALE | |

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 — 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

| | | |
|---|---|---|
| 5.02.2019 | DRAWN | CEP |
| 5.02.2019 | DESIGNED | KGU |
| 5.02.2019 | CHECKED | KGU |
| 5.02.2019 | APPROVED | DLP |

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: INDEX LEGEND & ABBREVIATIONS
7.3.2019

| TYPE OF IMPROVEMENT: | PARK |
|---|---|
| CITY PURCHASING NUMBER | DRAWING NUMBER |
| | S1.2 |
| PR: OF | REVISION NO.: |

DATE: Jul 03, 2019 - 10:36am by: pedersen

FILE NAME:

## TMS 402-13 TABLE 1.19.2

### LEVEL B QUALITY ASSURANCE FOR MASONRY CONSTRUCTION

### MINIMUM TESTS

VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5 B.1.B.3 FOR SELF-CONSOLIDATING GROUT

VERIFICATION OF F'M AND F'AAC IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4 B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE

MINIMUM SPECIAL INSPECTION

| | INSPECTION TASK | FREQUENCY OF INSPECTION | | | |
|---|---|---|---|---|---|
| | | CONTINUOUS | PERIODIC | TMS 402/ACI 530/ASCE 5 | TMS 602/ACI 530.1/ASCE 6 |
| 1. | VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS | - | X | - | ART. 1.5 |
| 2. | AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: | | | | |
| | A. PROPORTIONS OF SITE-PREPARED MORTAR | - | X | - | ART. 2.1, 2.6 A |
| | B. CONSTRUCTION OF MORTAR JOINTS | - | X | - | ART. 3.3 B |
| | C. LOCATION OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES | - | X | - | ART. 3.4 |
| 3. | PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: | | | | |
| | A. GROUT SPACE | - | X | - | ART. 3.2 D, 3.2 F |
| | B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND ANCHORAGES | - | X | SEC. 1.16 | ART. 2.4, 3.4 |
| | C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES | - | X | SEC. 6.1, 6.2.1, 6.2.6, 6.2.7 | ART. 3.2 E, 3.4, 3.6 A |
| | D. PROPORTIONS OF SITE-PREPARED GROUT | - | X | - | ART.2.6 B, 2.4 G.1.b |
| | E. CONSTRUCTION OF MORTAR JOINTS | - | X | - | ART. 3.3 B |
| 4. | VERIFY DURING CONSTRUCTION: | | | | |
| | A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS | - | X | - | ART. 3.3 F |
| | B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION | - | X | SEC. 1.2.1 (E), 6.1.4.3, 6.2.1 | - |
| | C. WELDING OF REINFORCEMENT | X | - | SEC.8.1.6.7.2, 9.3.3.4 (c), 11.3.3.4 (b) | - |
| | D. PREPERATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F) | - | X | - | - |
| | F. PLACEMENT OF GROUT | X | - | - | ART. 3.5, 3.6 C |
| 5. | OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS | - | X | - | ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4 |

## IBC TABLE 1705.6

### REQUIRED VERIFICATION AND INSPECTION OF SOILS

| | VERIFICATION AND INSPECTION TASK | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED |
|---|---|---|---|
| 1. | VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. | - | X |
| 2. | VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. | - | X |
| 3. | PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. | - | X |
| 4. | VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. | X | - |
| 5. | PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. | - | X |

## TABLE 1705.8

### REQUIRED SPECIAL INSPECTIONS AND TESTS OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS

| | TYPE | CONTINUOUS SPECIAL INSPECTION | PERIODIC SPECIAL INSPECTION |
|---|---|---|---|
| 1. | INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT. | X | - |
| 2. | VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES. | X | - |
| 3. | FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3. | - | - |

## IBC TABLE 1705.3

### REQUIRED SPECIAL INSPECTION AND TESTS OF CONCRETE CONSTRUCTION

| | TYPE | CONTINUOUS SPECIAL INSPECTIONS | PERIODIC SPECIAL INSPECTIONS | REFERENCED STANDARD[a] | IBC REFERENCE |
|---|---|---|---|---|---|
| 1. | INSPECT REINFORCEMENT, AND VERIFY PLACEMENT. | - | X | ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3 | 1908.4 |
| | | | | | |
| 3. | INSPECTION OF ANCHORS CAST IN CONCRETE. | - | X | ACI 318: 17.8.2 | - |
| 4. | INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.[b] | | | | - |
| | a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOAD | X | - | ACI 318: 17.8.2.4 | |
| | b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a | - | X | ACI318: 17.8.2 | |
| 5. | VERIFYING USE OF REQUIRED DESIGN MIX. | - | X | ACI 318: Ch. 19, 26.4.3, 26.4.4 | 1904.1, 1904.2, 1908.2, 1908.3 |
| 6. | PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. | X | - | ASTM C 172, ASTM C 31, ACI 318: 26.4, 26.12 | 1908.10 |
| 7. | INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. | X | - | ACI 318 | 1908.6, 1908.7, 1908.8 |
| 8. | VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. | - | X | ACI 318: 26.5.3-26.5.5 | 1908.9 |
| 12. | INSPECT FORMWORK FOR SHAPE, LOCATION AND DEMENSIONS OF THE CONCRETE MEMBER BEING FORMED | - | X | ACI 318: 26.11.1.2(b) | - |

a. WHERE APPLICABLE, SEE ALSO SECTION 1705.12 SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.
b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTIONS SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

### AISC 360-10 TABLE N5.6 STRUCTURAL STEEL

**INSPECTION TASKS FOR BOLTING**

**INSPECTION TASKS PRIOR TO BOLTING**

| VERIFICATION AND INSPECTION DESCRIPTION | QC | QA | REFERENCED STANDARD |
|---|---|---|---|
| MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS | O | P | AISC 360-10 TABLE N5.6-1 |
| FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIRMENTS | O | O | |
| PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE) | O | O | |
| PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL | O | O | |
| CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SELECTED, MEET APPLICABLE REQUIRMENTS | O | O | |
| PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED | P | O | |
| PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS | O | O | |

INSPECTION TASKS DURING BOLTING

| VERIFICATION AND INSPECTION DESCRIPTION | QC | QA | REFERENCED STANDARD |
|---|---|---|---|
| FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED | O | O | AISC 360-10 TABLE N5.6-2 |
| JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION | O | O | |
| FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING | O | O | |
| FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES | O | O | |

INSPECTION TASKS AFTER BOLTING

| VERIFICATION AND INSPECTION DESCRIPTION | QC | QA | REFERENCED STANDARD |
|---|---|---|---|
| DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS | P | P | AISC 360-10 TABLE N5.6-3 |

QC - QUALITY CONTROL AS SPECIFIED, SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.

QA - QUALITY ASSURANCE AS SPECIFIED, SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE STRUCTURAL ENGINEER OF RECORD OR AUTHORITY HAVING JURISDICTION.

NDT - NON-DESTRUCTIVE TESTING SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH AISC 360, SECTION N7.

O - OBSERVE THESE ITES ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

P - PERFORM THESE TASKS FOR EACH WELD, CONNECTION, OR STEEL ELEMENT.

### AISC 360-10 TABLE N5.4 STRUCTURAL STEEL

**INSPECTION TASKS FOR WELDING**

**INSPECTION TASKS PRIOR TO WELDING**

| VERIFICATION AND INSPECTION DESCRIPTION | QC | QA | REFERENCED STANDARD |
|---|---|---|---|
| WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE | P | P | AISC 360-10 TABLE N5.4-1 |
| MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE | P | P | |
| MATERIAL IDENTIFICATION (TYPE/GRADE) | O | O | |
| WELDER IDENTIFICATION SYSTEM | O | O | |
| FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) | | | |
| FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)<br>• JOINT PREPARATION<br>• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)<br>• CLEANLINESS (CONDITION OF STEEL SURFACES)<br>• TACKING (TACK WELD QUALITY AND LOCATION)<br>• BACKING TYPE AND FIT (IF APPLICABLE ) | O | O | |
| CONFIGURATION AND FINISH OF ACCESS HOLES | O | O | |
| FIT-UP OF FILLET WELDS<br>• DIMENSIONS (ALIGNMENT, GAPS AT ROOT)<br>• CLEANLINESS (CONDITION OF STEEL SURFACES)<br>• TACKING (TACK WELD QUALITY AND LOCATION) | O | O | |
| CHECK WELDING EQUIPMENT | O | - | |

INSPECTION TASKS DURING WELDING

| VERIFICATION AND INSPECTION DESCRIPTION | QC | QA | REFERENCED STANDARD |
|---|---|---|---|
| USE OF QUALIFIED WELDERS | O | O | AISC 360-10 TABLE N5.4 |
| CONTROL AND HANDLING OF WELDING CONSUMABLES<br>• PACKING<br>• EXPOSURE CONTROL | O | O | |
| NO WELDING OVER CRACKED TACK WELDS | O | O | |
| ENVIROMENTAL CONDITIONS<br>• WIND SPEED WITHIN LIMITS<br>• PRECIPITION AND TEMPERATURE | O | O | |
| WPS FOLLOWED<br>• SETTINGS ON WELDING EQUIPMENT<br>• TRAVEL SPEED<br>• SELECTED WELDING MATERIALS<br>• SHIELDING GAS TYPE/FLOW RATE<br>• PREHEAT APPLIED<br>• INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.)<br>• PROPER POSITION (F, V, H, OH) | O | O | |
| WELDING TECHNIQUES<br>• INTERPASS AND FINAL CLEANING<br>• EACH PASS WITHIN PROFILE LIMITATIONS<br>• EACH PASS MEETS QUALITY REQUIREMENTS | O | O | |

INSPECTION TASKS AFTER WELDING

| VERIFICATION AND INSPECTION DESCRIPTION | QC | QA | REFERENCED STANDARD |
|---|---|---|---|
| WELDS CLEANED | O | O | AISC 360-10 TABLE N5.4-3 |
| SIZE, LENGTH AND LOCATION OF WELDS | P | P | |
| WELDS MEET VISUAL ACCEPTANCE CRITERIA<br>• CRACK PROHIBITION<br>• WELD JABSE METAL FUSION<br>• CRATER CROSS SECTION<br>• WELD PROFILES<br>• WELD SIZE<br>• UNDERCUT<br>• POROSITY | P | P | |
| ARC STRIKES | P | P | |
| k-AREA[1] | P | P | |
| BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) | P | P | |
| REPAIR ACTIVITIES | P | P | |
| DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER | P | P | |

1. WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3 IN. OF WELD.
2. THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAINE SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW STRESS TYPE.

QC - QUALITY CONTROL AS SPECIFIED, SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.

QA - QUALITY ASSURANCE AS SPECIFIED, SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE STRUCTURAL ENGINEER OF RECORD OR AUTHORITY HAVING JURISDICTION.

NDT - NON-DESTRUCTIVE TESTING SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH AISC 360, SECTION N7.

O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

P - PERFORM THESE TASKS FOR EACH WELD, CONNECTION, OR STEEL ELEMENT.


DIGITALLY SIGNED:

| BY | REVISIONS | DATE |
|---|---|---|
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10 N. Post Street, Suite 500
Spokane, WA 99201
**ph 509.328.2994**
**www.coffman.com**

LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION

| | | | |
|---|---|---|---|
| ELEVATION SEE SHEET V1.0 | HORIZONTAL NTS | BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" | |
| CBM NO. N/A NAVD 88 | VERTICAL -- | IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY | |
| CITY DATUM | SCALE | | |

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95

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| 5.02.2019 | DRAWN CEP |
| 5.02.2019 | DESIGNED KGU |
| 5.02.2019 | CHECKED KGU |
| 5.02.2019 | APPROVED DLP |

CITY OF SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

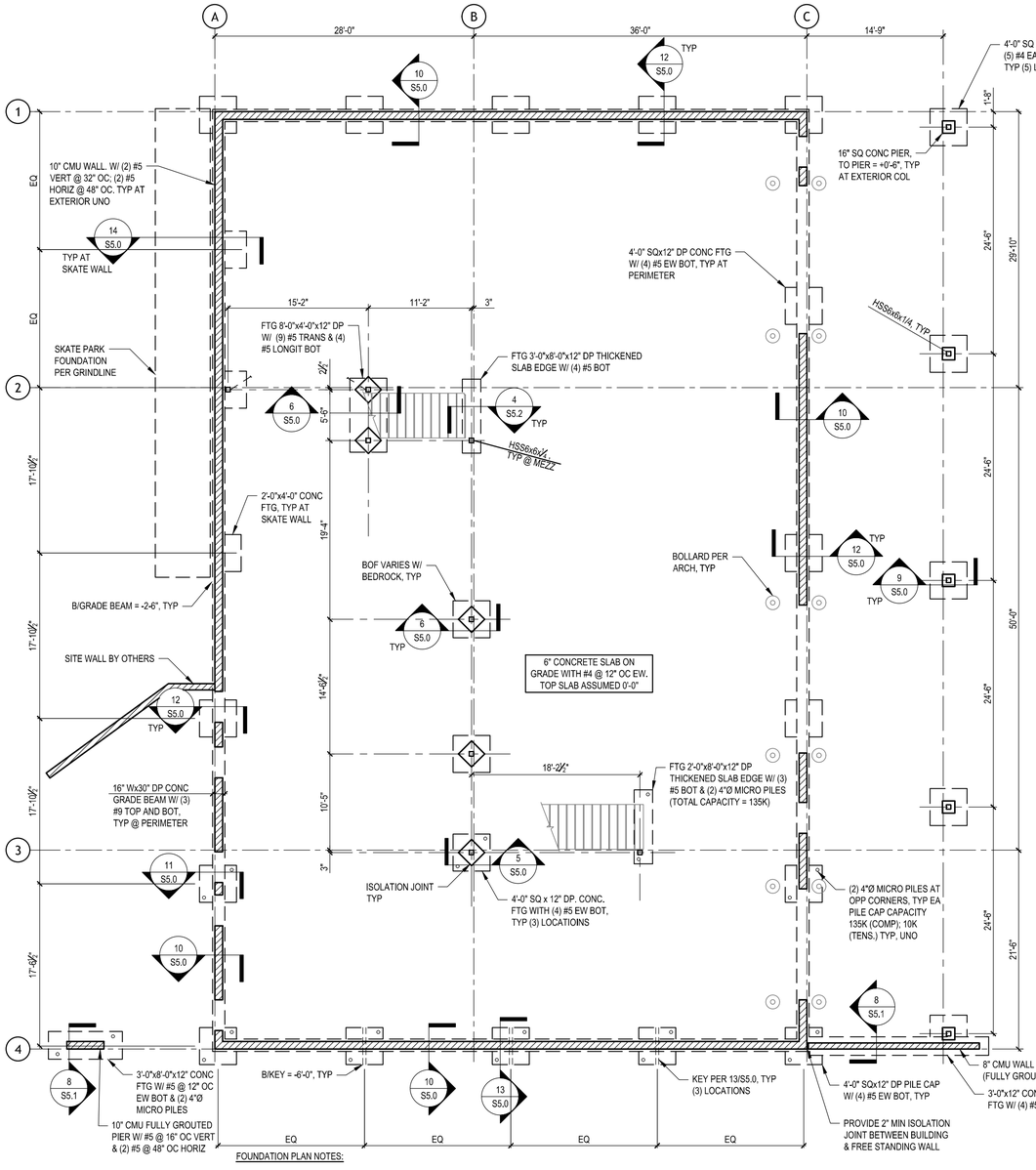
PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: IBC TABLES & REQUIREMENTS
7.3.2019

| TYPE OF IMPROVEMENT: PARK | |
|---|---|
| CITY PURCHASING NUMBER | DRAWING NUMBER S1.3 |
| P#: OF | REVISION NO.: |

DATE: Jul 03, 2019 - 10:36am by: pedersen

FILE NAME:

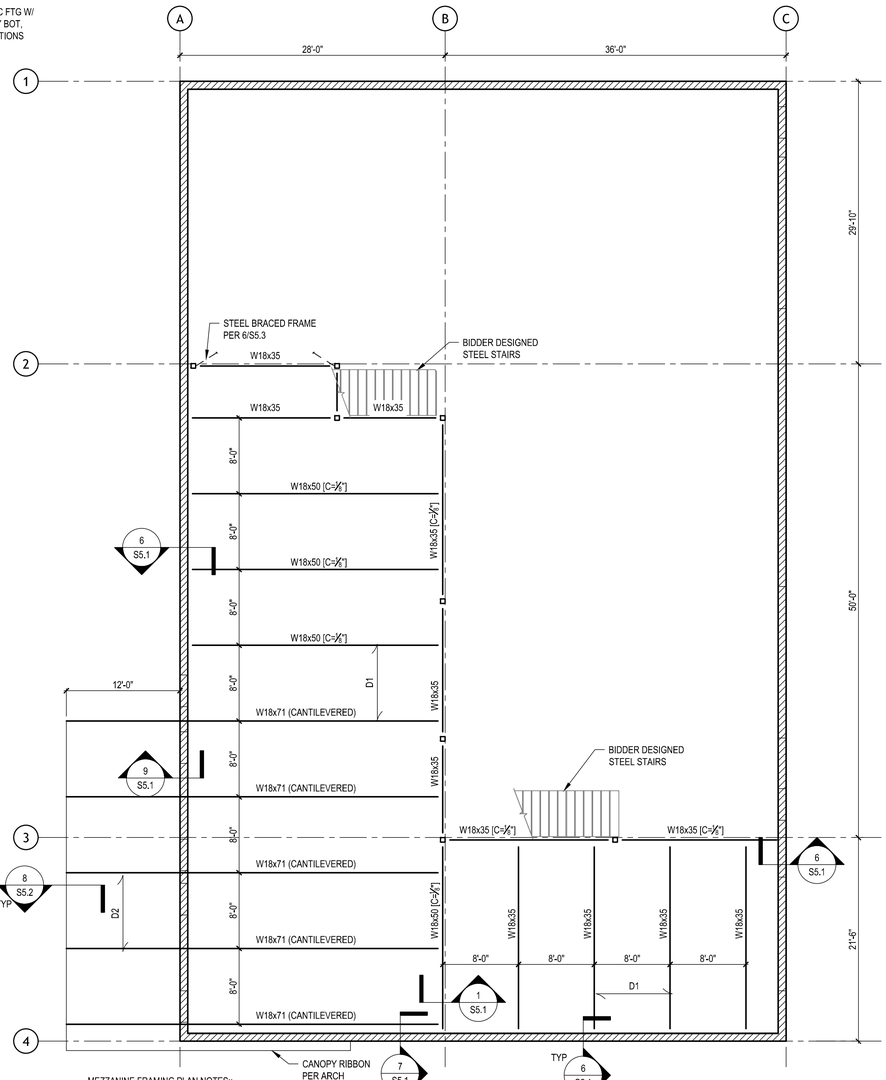



FOUNDATION PLAN NOTES:

1. SEE SHEET S1.1 FOR GENERAL STRUCTURAL NOTES.
2. SEE SHEET S1.3 FOR SPECIAL INSPECTION TABLES.
3. FOR TYPICAL FOUNDATION DETAILS NOT REFERENCED ON PLAN, SEE SHEET S5.0.
4. COLUMN SIZES AND LOCATIONS ARE SPECIFIED AT BASE OF COLUMN. VERIFY ALL PLAN DIMENSIONS WITH ARCHITECTURAL PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO COORDINATE DRAWINGS WITH ALL OTHER DISCIPLINES PRIOR TO POURING FOUNDATIONS INCLUDING BUT NOT LIMITED TO: DOOR AND WINDOW LOCATIONS, DEPRESSED SLABS, SLAB SLOPES, LOCATION OF DRAINS, BLOCKOUTS FOR PLUMBING, MECHANICAL AND ELECTRICAL CONDUITS, ETC. SEE TYPICAL FOUNDATION DETAILS SHEET FOR FURTHER INFORMATION.
6. CONTRACTOR SHALL PROVIDE CONTROL JOINTS IN SLAB ON GRADE PER DETAIL 3/S5.0 TYPICAL. SEE ARCHITECTURAL PLANS FOR CONTROL JOINT LAYOUT.
7. CONTRACTOR TO PROVIDE PILES CAPABLE OF GIVEN LOADS. LOADS ARE ASD FOR TOTAL PILE CAP CAPACITY.
8. CONTRACTOR OPTION TO DIG FOUNDATIONS TO BEAR ON BEDROCK OR USE PILES. SEE S5.0 FOR DETAILS.

## FOUNDATION PLAN

SCALE: 1/8" = 1'-0"




MEZZANINE FRAMING PLAN NOTES::

1. SEE SHEET S1.1 FOR GENERAL STRUCTURAL NOTES.
2. SEE SHEET S1.3 FOR SPECIAL INSPECTION TABLES.
3. FOR TYPICAL FRAMING DETAILS NOT REFERENCED ON PLAN, SEE SHEET S5.3.
4. COLUMN SIZES AND LOCATIONS ARE SPECIFIED AT BASE OF COLUMN. VERIFY ALL PLAN DIMENSIONS WITH ARCHITECTURAL PRIOR TO CONSTRUCTION.
5. ROOF STEEL JOIST SIZES ARE SPECIFIED ON PLAN, DESIGNATION AS FOLLOWS:
   - 12 K (360 / 240)
   - DENOTES JOIST DEPTH IN INCHES
   - DENOTES JOIST TYPE
   - DENOTES TOTAL LOAD (PLF)
   - DENOTES LIVE LOAD (PLF)
6. JOIST SEAT DEPTH PER DETAIL 5/S5.3, UNLESS NOTED OTHERWISE ON PLAN
7. IN ADDITION TO LOADING NOTED ON PLANS AND GENERAL NOTES, ALL STEEL JOISTS MUST BE CAPABLE OF SUPPORTING 500 LBS MINIMUM CONCENTRATED LOAD FROM ANY PANEL POINT WHEREVER CAUSES WORST CASE AFFECTS.
8. D1 — INDICATES SPAN DIRECTION OF 3" 20 GA COMPOSITE METAL DECK (5½" TOTAL DEPTH) REINF. W/ 6x6 W2.9xW2.9 WWF. CONNECT DECK PER 2/S5.3.
   D2 — INDICATES SPAN DIRECTION OF 1½" 18 GA TYPE B METAL ROOF DECK. CONNECTION TO WF BEAM PER 1/S5.3.
9. C=X" INDICATES UPWARD CAMBER DIMENSION.
10. ALL BOLTED CONNECTIONS TO BE PRE TENSIONED.

## MEZZANINE FRAMING PLAN

SCALE: 1/8" = 1'-0"

DAVID L. PEDEN — STATE OF WASHINGTON — 27251 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
9.2.19

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LOCATION: SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION
ELEVATION: SEE SHEET V1.0 — HORIZONTAL: 1/8"=1'-0"
CBM NO.: N/A — NAVD 88 — VERTICAL: --
CITY DATUM — SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
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CCS - ADOPTED 2/95

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| 5.02.2019 | DRAWN | CEP |
| 5.02.2019 | DESIGNED | KGU |
| 5.02.2019 | CHECKED | KGU |
| 5.02.2019 | APPROVED | DLP |

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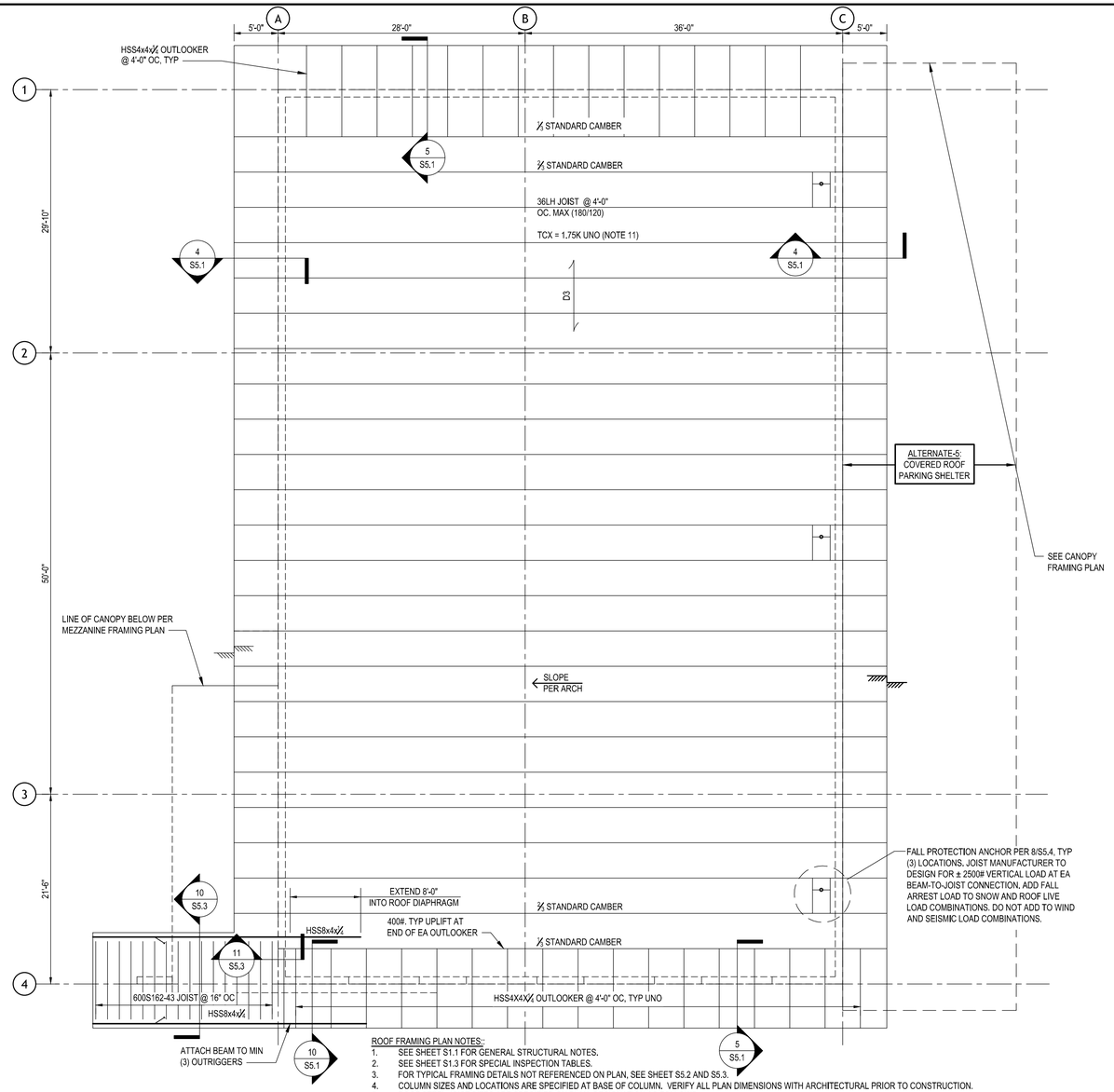
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: FOUNDATION PLAN & MEZZANINE FRAMING PLAN
7.3.2019

TYPE OF IMPROVEMENT: PARK
CITY PURCHASING NUMBER | DRAWING NUMBER: S2.1
PR: OF | REVISION NO.:

DATE: Jul 03, 2019 - 10:36am by: pedersen
FILE NAME:




ROOF FRAMING PLAN NOTES:

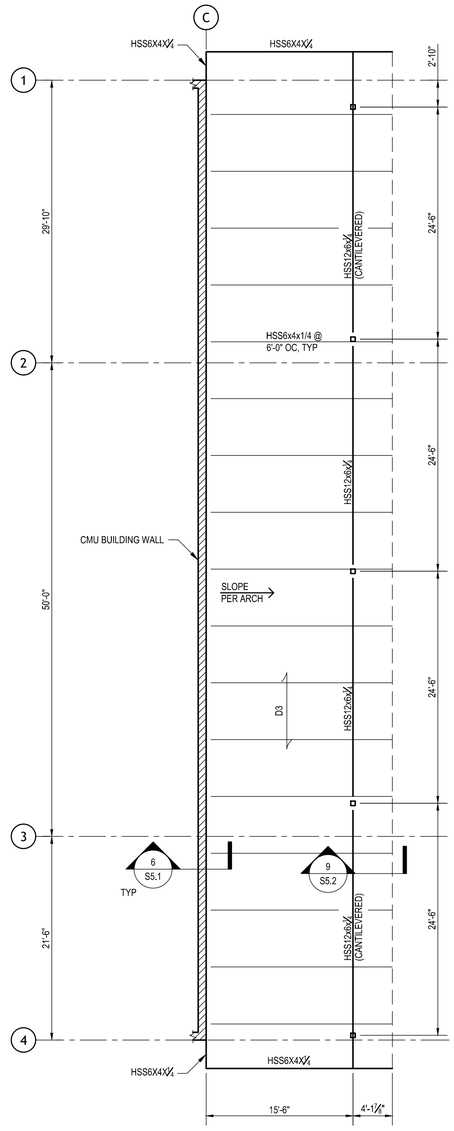
1. SEE SHEET S1.1 FOR GENERAL STRUCTURAL NOTES.
2. SEE SHEET S1.3 FOR SPECIAL INSPECTION TABLES.
3. FOR TYPICAL FRAMING DETAILS NOT REFERENCED ON PLAN, SEE SHEET S5.2 AND S5.3.
4. COLUMN SIZES AND LOCATIONS ARE SPECIFIED AT BASE OF COLUMN. VERIFY ALL PLAN DIMENSIONS WITH ARCHITECTURAL PRIOR TO CONSTRUCTION.
5. ROOF STEEL JOIST SIZES ARE SPECIFIED ON PLAN. DESIGNATION AS FOLLOWS:

   12 K (360 / 240)
   - 12 — DENOTES JOIST DEPTH IN INCHES
   - K — DENOTES JOIST TYPE
   - 360 — DENOTES TOTAL LOAD (PLF)
   - 240 — DENOTES LIVE LOAD (PLF)

6. JOIST SEAT DEPTH PER DETAIL 5/S5.3, UNLESS NOTED OTHERWISE ON PLAN
7. IN ADDITION TO LOADING NOTED ON PLANS AND GENERAL NOTES, ALL STEEL JOISTS MUST BE CAPABLE OF SUPPORTING 400 LBS MINIMUM CONCENTRATED LOAD FROM ANY PANEL POINT WHEREVER CAUSES WORST CASE AFFECTS.
8. CONTRACTOR TO COORDINATE ROOFTOP MECHANICAL UNITS WEIGHT AND LOCATION WITH STEEL JOIST MANUFACTURER.
9. SMALL ROOF PENETRATIONS ALLOWED PER DETAIL 3/S5.3. FOR TYPICAL OPENINGS UP TO 2'-4" WIDE, SEE DETAIL 4/S5.3. ANY OPENINGS LARGER THAN 2'-4" WIDE REQUIRE FRAMING AS NOTED ON PLANS.
10. D3 — INDICATES SPAN DIRECTION OF 1 1/2" 20 GA TYPE B METAL ROOF DECK. CONNECTION TO STEEL JOIST PER 1/S5.3.
11. TCX = TOP CHORD AXIAL SEISMIC LOAD IN JOISTS. JOIST MANUFACTURER TO DESIGN JOIST TOP CHORD AND BEARING SEAT FOR THIS LOAD. FORCE GIVEN IN K (LRFD).

## ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"




## CANOPY FRAMING PLAN

SCALE: 1/8" = 1'-0"

DAVID L PEDEN — STATE OF WASHINGTON — 27251 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
5.2.19

DIGITALLY SIGNED:

| BY | REVISIONS | DATE |
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LOCATION: SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION

| ELEVATION | SEE SHEET V1.0 | HORIZONTAL | 1/8"=1'-0" |
|---|---|---|---|
| CBM NO. | N/A | VERTICAL | – |
| | NAVD 88 | | |
| CITY DATUM | | SCALE | |

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

| | | |
|---|---|---|
| 5.02.2019 | DRAWN | CEP |
| 5.02.2019 | DESIGNED | KGU |
| 5.02.2019 | CHECKED | KGU |
| 5.02.2019 | APPROVED | DLP |

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DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: ROOF FRAMING PLAN
7.3.2019

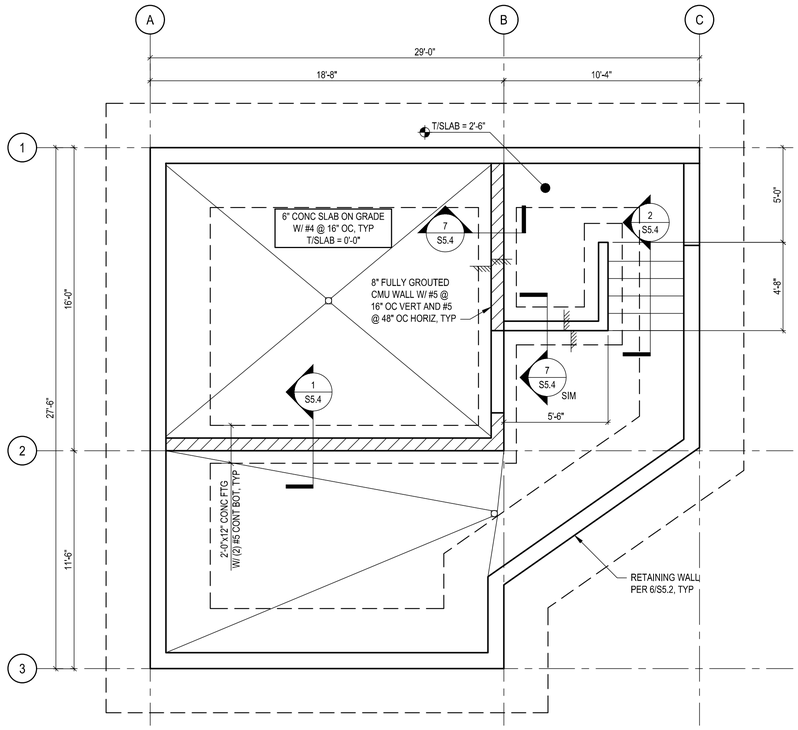
TYPE OF IMPROVEMENT: PARK

| CITY PURCHASING NUMBER | DRAWING NUMBER |
|---|---|
| | S2.2 |

PIP: OF REVISION NO.:

DATE: Jul 03, 2019 - 10:36am by: pedersen

FILE NAME:

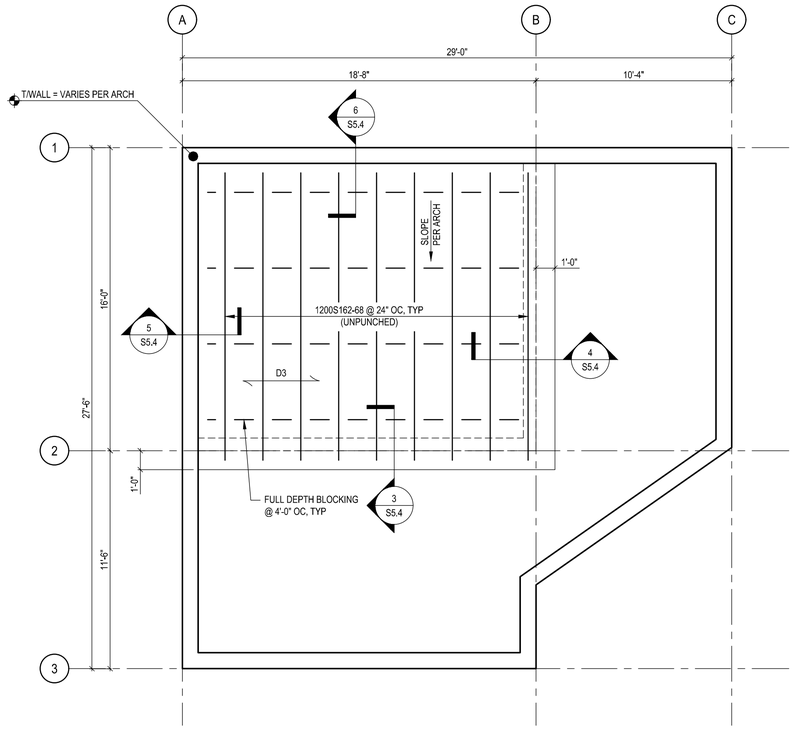



FOUNDATION PLAN NOTES:

1. SEE SHEET S1.1 FOR GENERAL STRUCTURAL NOTES.
2. SEE SHEET S1.3 FOR SPECIAL INSPECTION TABLES.
3. FOR TYPICAL FOUNDATION DETAILS NOT REFERENCED ON PLAN, SEE SHEET S5.0.
4. CONTRACTOR TO COORDINATE DRAWINGS WITH ALL OTHER DISCIPLINES PRIOR TO POURING FOUNDATIONS INCLUDING BUT NOT LIMITED TO: DOOR AND WINDOW LOCATIONS, DEPRESSED SLABS, SLAB SLOPES, LOCATION OF DRAINS, BLOCKOUTS FOR PLUMBING, MECHANICAL AND ELECTRICAL CONDUITS, ETC. SEE TYPICAL FOUNDATION DETAILS SHEET FOR FURTHER INFORMATION.
5. CONTRACTOR SHALL PROVIDE CONTROL JOINTS IN SLAB ON GRADE PER DETAIL 3/S5.0 TYPICAL. SEE ARCHITECTURAL PLANS FOR CONTROL JOINT LAYOUT.

# FOUNDATION PLAN

SCALE:1/4"=1'-0"




ROOF FRAMING PLAN NOTES:

1. SEE SHEET S1.1 FOR GENERAL STRUCTURAL NOTES.
2. SEE SHEET S1.3 FOR SPECIAL INSPECTION TABLES.
3. FOR TYPICAL FRAMING DETAILS NOT REFERENCED ON PLAN, SEE SHEET S5.2 AND S5.3.
4. D3 INDICATES SPAN DIRECTION OF 1 1/2" 20 GA TYPE B METAL ROOF DECK. CONNECTION TO STEEL JOIST PER 1/S5.3.

# ROOF FRAMING PLAN

SCALE:1/4"=1'-0"

DAVID L. PEDEN
STATE OF WASHINGTON
27251
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
7-3-2019

DIGITALLY SIGNED:

| BY | REVISIONS | DATE |
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| LOCATION: SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION | | | BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY |
| ELEVATION SEE SHEET V1.0 | HORIZONTAL 1"=20' | | |
| CBM NO. N/A NAVD 88 | VERTICAL 1"=10' | | |
| CITY DATUM | SCALE | | |

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

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|---|---|---|
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| 5.02.2019 | DESIGNED | KGU |
| 5.02.2019 | CHECKED | KGU |
| 5.02.2019 | APPROVED | DLP |

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(509) 625-6200

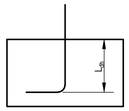
| | |
|---|---|
| PROJECT TITLE: | RIVERFRONT PARK<br>NORTH BANK PLAYGROUND<br>BID SET |
| SHEET TITLE: | PUMP HOUSE PLANS<br>7.3.2019 |

| TYPE OF IMPROVEMENT: | PARK |
|---|---|
| CITY PURCHASING NUMBER | DRAWING NUMBER |
| | S2.3 |
| PR: OF | REVISION NO.: |

DATE: Jul 03, 2019 - 10:36am by: pedersen

FILE NAME:

| BAR SIZE | DEVELOPMENT OF STANDARD HOOKS (90°) | |
|---|---|---|
| | f'c = 2500 OR 3000 PSI | f'c = 4000 PSI |
| | $L_{dh}$ | $L_{dh}$ |
| #3 | 9" | 7" |
| #4 | 12" | 9" |
| #5 | 15" | 12" |
| #6 | 18" | 14" |
| #7 | 21" | 17" |
| #8 | 24" | 19" |
| #9 | 27" | 21" |
| #10 | 31" | 24" |
| #11 | 34" | 27" |




NOTES:
1. REINFORCING YIELD STRENGTH Fy=60 KSI.
2. APPLICABLE TO UNCOATED BARS ONLY.
3. NORMAL WEIGHT CONCRETE ONLY.
4. NOT APPLICABLE TO JOINTS OF SPECIAL MOMENT FRAMES.
5. IF DESIGN f'c IS NOT SHOWN, USE NEXT LOWEST f'c SHOWN IN TABLE FOR CONSERVATIVE HOOK LENGTH.

## 1 MINIMUM DEVELOPMENT LENGTHS FOR 90° HOOKED BARS

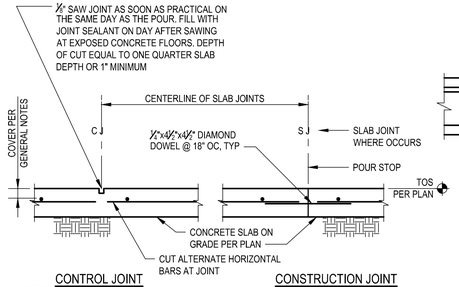
SCALE: NTS

| BAR SIZE | CLASS B TENSION SPLICES, $L_{st}$ | | | | COMPRESSION BARS, Lsc | |
|---|---|---|---|---|---|---|
| | f'c = 2,500 OR 3,000 PSI | | f'c = 4,000 PSI | | f'c = ALL | |
| | REGULAR BARS | TOP BARS | REGULAR BARS | TOP BARS | OPEN | ENCLOSED W/ TIES SPACED NOT MORE THAN 4" O.C. |
| #3 | 24" | 31" | 19" | 24" | 12" | 12" |
| #4 | 32" | 41" | 25" | 32" | 15" | 13" |
| #5 | 40" | 52" | 31" | 40" | 19" | 16" |
| #6 | 48" | 62" | 37" | 48" | 23" | 20" |
| #7 | 69" | 89" | 54" | 70" | 27" | 23" |
| #8 | 79" | 102" | 62" | 80" | 30" | 25" |
| #9 | 89" | 116" | 70" | 91" | 34" | 29" |
| #10 | 100" | 130" | 79" | 102" | 38" | 32" |
| #11 | 111" | 144" | 87" | 113" | 43" | 36" |

NOTES:
1. UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, WALLS, SLABS AND FOOTINGS SHALL BE CLASS "B" TENSION LAP SPLICES AND LAP SPLICES IN CONCRETE COLUMNS SHALL BE COMPRESSION LAP SPLICES.
2. STAGGER ALTERNATE SPLICES A MINIMUM OF ONE LAP LENGTH.
3. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
4. REINFORCING YIELD STRENGTH Fy = 60 KSI.
5. FOR BEAMS AND COLUMNS ACI 25.4.2.2 CASE 1 APPLIES (CONCRETE COVER AT LEAST ONE BAR DIAMETER AND CENTER TO CENTER SPACING AT LEAST TWO BAR DIAMETERS).
6. FOR ALL OTHER MEMBERS CASE 1 APPLIES (CONCRETE COVER AT LEAST ONE BAR DIAMETER AND CENTER TO CENTER SPACING AT LEAST THREE BAR DIAMETERS).

## 2 MINIMUM LAP SPLICE LENGTHS FOR REINF IN CONC

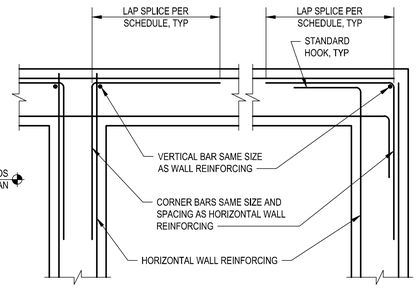
SCALE: NTS




NOTES:
1. AT CONTRACTOR'S OPTION ½"Øx1'-0" SMOOTH DOWELS AT 24" OC CENTERED IN SLAB MAY BE USED IN LIEU OF DIAMOND DOWELS. GRIND ENDS OF DOWEL TO REMOVE SHEARING BURRS, GREASE OR WRAP ONE END TO PREVENT BOND
2. UNLESS NOTED OTHERWISE, SPACE CONTROL JOINTS AT 10'-0" OC MAX. LENGTH TO WIDTH ASPECT RATIO OF CONTROL JOINT PANELS SHALL NOT EXCEED 1:1.2.
3. DIAMOND DOWELS TO BE PNA CONSTRUCTION TECHNOLOGIES OR APPROVED EQUAL.

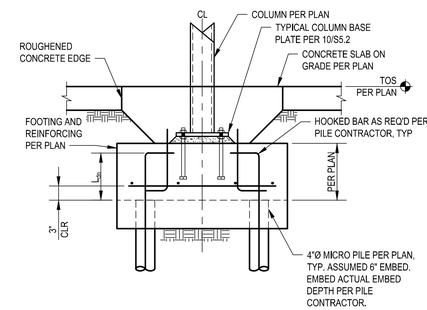
## 3 TYPICAL SLAB ON GRADE JOINT REINF IN CONC

SCALE: NTS



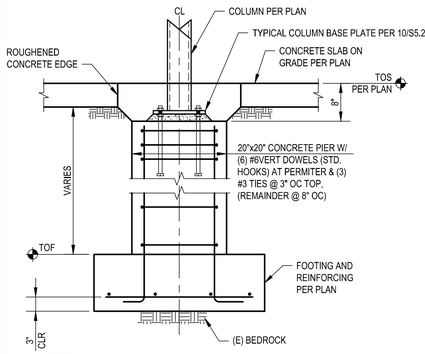

## 4 TYPICAL CONC REINF AT INTERSECTIONS & CORNERS (DOUBLE CURTAIN)

SCALE: NTS




## 5 TYPICAL COLUMN PIER AT SPREAD FOOTING AT PILE CAP

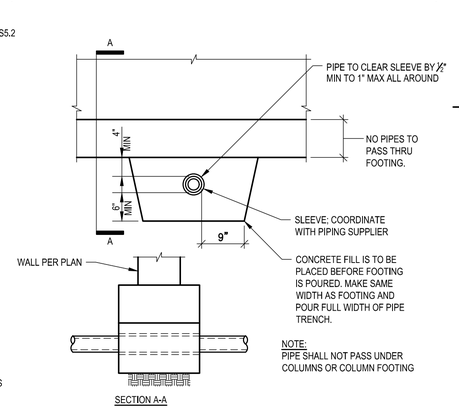
SCALE: NTS




NOTES:
1. FOOTING TO BE PLACED ON BEDROCK.
2. CONTRACTOR TO PREPARE BEDROCK PER GEOTECH REPORT RECOMMENDATIONS TO OBTAIN 10,000 PSF ALLOWABLE BEARING PRESSURE.

## 6 TYPICAL COLUMN PIER AT SPREAD FOOTING ON BEDROCK

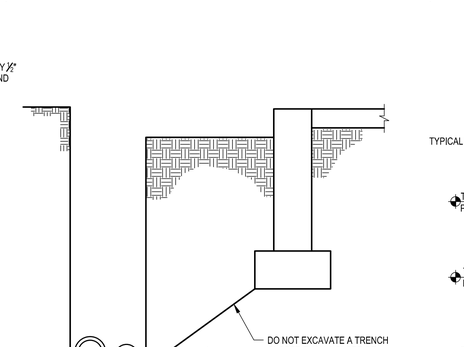
SCALE: NTS




NOTE:
PIPE SHALL NOT PASS UNDER COLUMNS OR COLUMN FOOTING

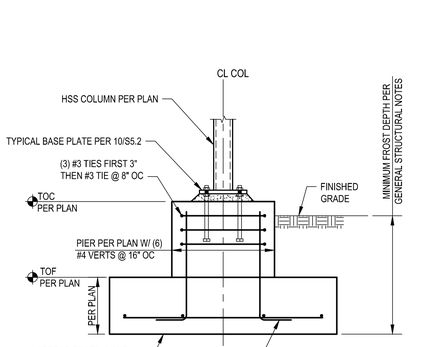
## 7 TYPICAL PIPE PASSING BELOW WALL

SCALE: NTS



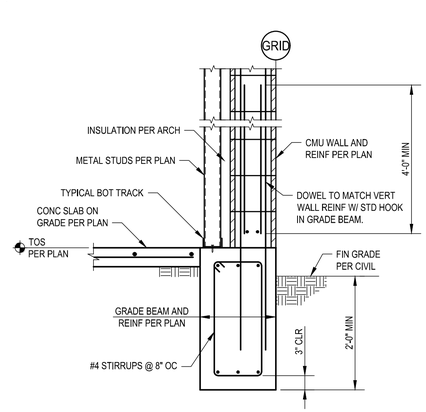

## 8 TYPICAL TRENCH PARALEL TO FOUNDATION WALL

SCALE: NTS



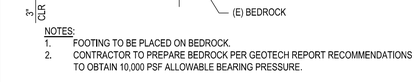

## 9 TYPICAL SPREAD FOOTING AT CANOPY

SCALE: NTS




## 10 TYPICAL GRADE BEAM SECTION AT CMU WALL

SCALE: NTS



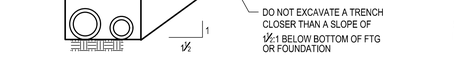

## 11 TYPICAL GRADE BEAM SECTION AT CMU WALL WITH PILE CAPS

SCALE: NTS



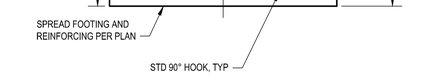

## 12 TYPICAL PIPE PASSING BELOW WALL

SCALE: NTS




## 13 TYPICAL KEY IN FOOTING

SCALE: NTS




NOTES:
1. FOR ADDITIONAL INFO SEE 10/SS.1.
2. PROVIDE STANDARD HOOKS INTO FOOTING FOR VERTICAL KEY REINFORCING.

SECTION A-A

## 14 TYPICAL SPREAD FOOTING AT SKATE WALL

SCALE: NTS




NOTE:
FOR INFORMATION NOT SHOWN, REFERENCE 12/S5.0

| BY | REVISIONS | DATE |
|---|---|---|
| | | |


COFFMAN ENGINEERS
10 N. Post Street, Suite 500
Spokane, WA 99201
**ph 509.328.2994**
**www.coffman.com**


LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION

| ELEVATION | SEE SHEET V1.0 | HORIZONTAL | NTS |
|---|---|---|---|
| CBM NO. | N/A | VERTICAL | -- |
| | NAVD 88 | | |
| CITY DATUM | | SCALE | |

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

| | | |
|---|---|---|
| 5.02.2019 | DRAWN | CEP |
| 5.02.2019 | DESIGNED | KGU |
| 5.02.2019 | CHECKED | KGU |
| 5.02.2019 | APPROVED | DLP |

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: FOUNDATION DETAILS
7.3.2019

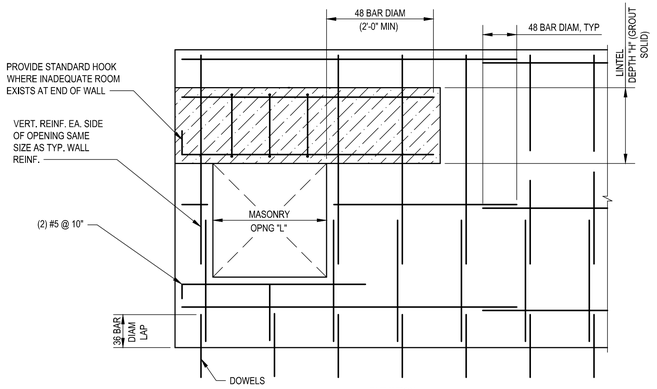
DATE: Jul 03, 2019 - 10:37am by: pedersen

DAVID L. PEDEN — STATE OF WASHINGTON — 27251 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
5.2.19

DIGITALLY SIGNED:

| TYPE OF IMPROVEMENT: PARK | |
|---|---|
| CITY PURCHASING NUMBER | DRAWING NUMBER |
| | S5.0 |
| PIR: OF | REVISION NO.: |

FILE NAME:



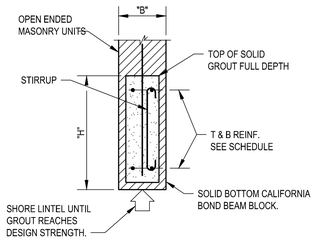

ELEVATION

| VERTICAL | HORIZONTAL |
|---|---|
| #5 @ 32" EF | #5 @ 48" O.C. E.F. |

MINIMUM WALL REINFORCEMENT

| MASONRY OPENING "L" | LINTEL SIZE "B" | LINTEL SIZE "H" | BOTTOM BARS | TOP BARS | STIRRUPS |
|---|---|---|---|---|---|
| < 4'-0" | 10" | 16" | (2) #5 | (2) #5 | #3 @ 8" |
| < 12'-0" | 10" | 24" | (2) #5 | (2) #5 | #3 @ 8" |
| < 16'-0" | 10" | 32" | (2) #5 | (2) #5 | #3 @ 8" |

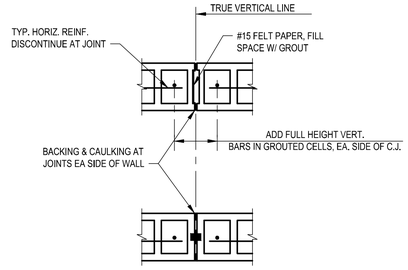
MINIMUM LINTEL REQUIREMENTS




SECTION

ALL LINTELS TO BE LAID UP USING OPEN END MASONRY UNITS WITH BLOCKOUTS REMOVED AT ALL COURSES. ALL LINTELS TO BE GROUTED SOLID, FULL HEIGHT. EXTEND GROUT, OPEN END MASONRY UNITS AND REINFORCING 24" PAST EA. JAMB.

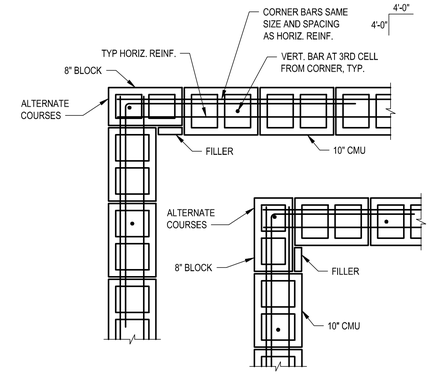
LAP LINTEL REINFORCING AS FOLLOWS:
-LAP BOTTOM REINFORCING AT SUPPORTS.
-LAP TOP REINFORCING AT MIDSPAN.




NOTE:
"DUROWALL" RUBBER CONTROL JOINT IN SASH KEY. USE AT BLOCK WHERE AVAILABLE IN SQUARE END UNITS ONLY. CONTRACTOR'S OPTION TO USE GROUTED OR RUBBER JOINT. SEE ARCHITECTURAL DRAWINGS FOR JOINT SPACING. CONTROL JOINTS DISCONTINUOUS AT BOND BEAM AT TOP OF WALL.

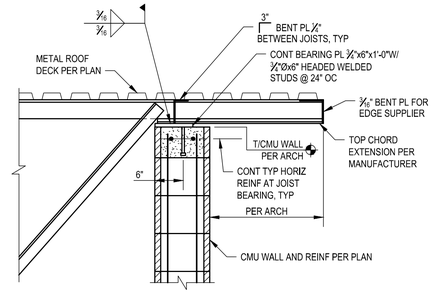
## 2 CMU WALL CONTROL JOINT

SCALE: NTS



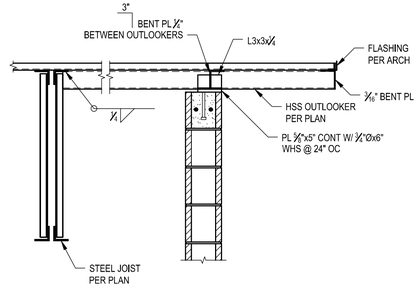

## 3 10" CMU CORNER

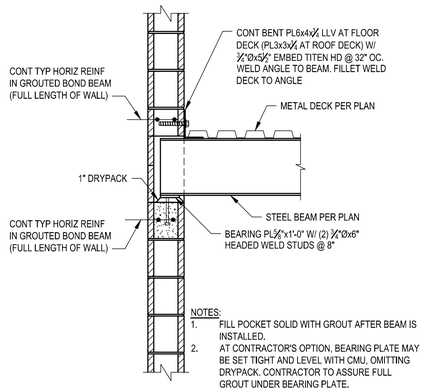
SCALE: NTS



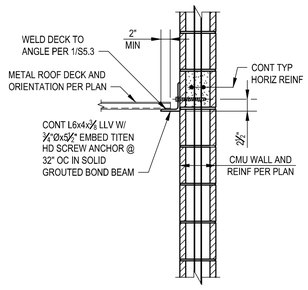

## 4 TYP ROOF JOIST EXTENSION WALL

SCALE: NTS



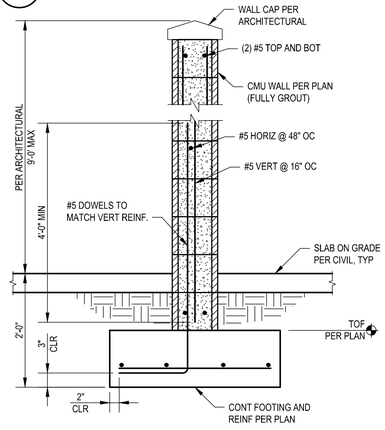




NOTES:
1. FILL POCKET SOLID WITH GROUT AFTER BEAM IS INSTALLED.
2. AT CONTRACTOR'S OPTION, BEARING PLATE MAY BE SET TIGHT AND LEVEL WITH CMU, OMITTING DRYPACK. CONTRACTOR TO ASSURE FULL GROUT UNDER BEARING PLATE.



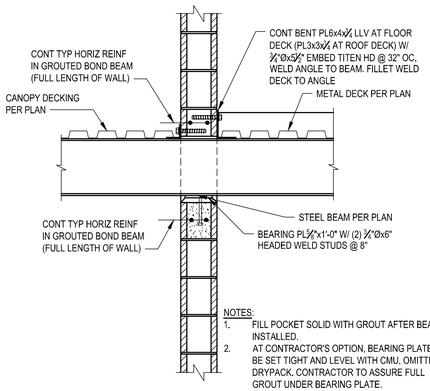

## 1 MINIMUM MASONRY WALL REINFORCING SCHEDULE

SCALE: NTS




## 5 TYP SECTION AT ROOF DECK TO CMU

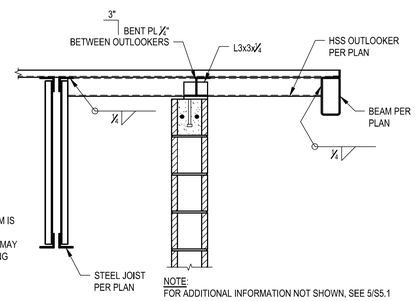
SCALE: NTS




NOTES:
1. FILL POCKET SOLID WITH GROUT AFTER BEAM IS INSTALLED.
2. AT CONTRACTOR'S OPTION, BEARING PLATE MAY BE SET TIGHT AND LEVEL WITH CMU, OMITTING DRYPACK. CONTRACTOR TO ASSURE FULL GROUT UNDER BEARING PLATE.

## 6 TYP STEEL BEAM AT CMU POCKET

SCALE: NTS




NOTE:
FOR ADDITIONAL INFORMATION NOT SHOWN, SEE 5/S5.1

## 7 TYP DECK SUPPORT AT CMU WALL

SCALE: NTS

## 8 SECTION AT STAND ALONE WALL

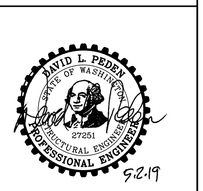
SCALE: NTS

## 9 TYP STEEL BEAM AT CMU POCKET

SCALE: NTS

## 10 HSS BEAM CONNECTION AT OUTRIGGER

SCALE: NTS




DIGITALLY SIGNED:

| BY | REVISIONS | DATE |
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LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION

| ELEVATION | SEE SHEET V1.0 | HORIZONTAL | NTS |
|---|---|---|---|
| CBM NO. | N/A NAVD 88 | VERTICAL | -- |
| CITY DATUM | | SCALE | |

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95

| | | |
|---|---|---|
| 5.02.2019 | DRAWN | CEP |
| 5.02.2019 | DESIGNED | KGU |
| 5.02.2019 | CHECKED | KGU |
| 5.02.2019 | APPROVED | DLP |

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

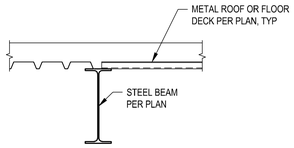
PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: MASONRY DETAILS
7.3.2019

| TYPE OF IMPROVEMENT: | PARK |
|---|---|
| CITY PURCHASING NUMBER | DRAWING NUMBER |
| | S5.1 |
| PIR: | OF |
| | REVISION NO.: |

DATE: Jul 03, 2019 - 10:37am by: pedersen

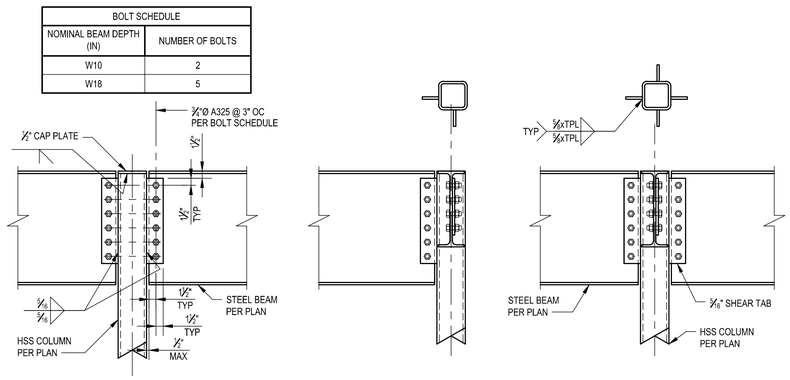
FILE NAME:




## 1 TYP DECK ORIENTATION CHANGE AT BEAM

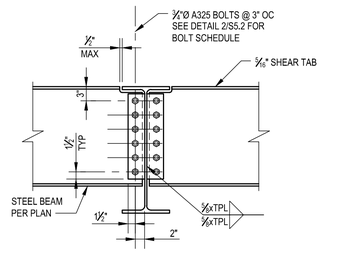
SCALE: NTS

| BOLT SCHEDULE | |
|---|---|
| NOMINAL BEAM DEPTH (IN) | NUMBER OF BOLTS |
| W10 | 2 |
| W18 | 5 |



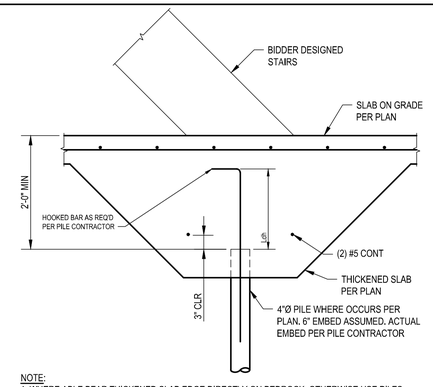

## 2 TYP STEEL BEAM TO HSS COLUMN CONNECTION

SCALE: NTS




## 3 STEEL BEAM TO BEAM SHEAR TAB CONN

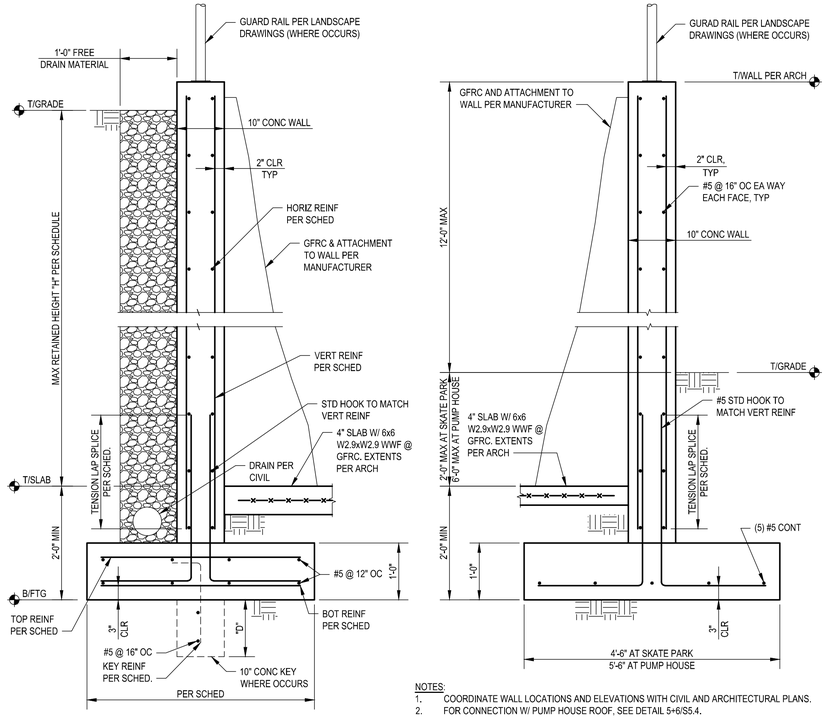
SCALE: NTS




NOTE:
1. WHERE ABLE BEAR THICKENED SLAB EDGE DIRECTLY ON BEDROCK. OTHERWISE USE PILES.

## 4 THICKENED SLAB AT STAIRS

SCALE: NTS




## 5 SITE RETAINING WALL DETAIL

SCALE: NTS




NOTES:
1. COORDINATE WALL LOCATIONS AND ELEVATIONS WITH CIVIL AND ARCHITECTURAL PLANS.
2. FOR CONNECTION W/ PUMP HOUSE ROOF, SEE DETAIL 5+6/S5.4.

## 6 RETAINING WALL DETAIL AT PUMP HOUSE AND SKATE PARK

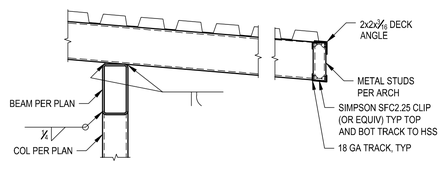
SCALE: NTS

| RETAINING WALL SCHEDULE | | | | | | | |
|---|---|---|---|---|---|---|---|
| WALL HEIGHT | MIN FTG SIZE (CENTERED ON WALL) | VERT REINF | HORIZ REINF | BOT REINF | TOP REINF | KEY DEPTH "D" | KEY REINF |
| 4'-0" | 4'-0" | #5 @ 16" OC EF | #5 @ 16" OC | N/A | N/A | N/A | N/A |
| 6'-0" | 4'-6" | #5 @ 16" OC EF | #5 @ 16" OC | N/A | N/A | N/A | N/A |
| 8'-0" | 5'-0" | #5 @ 12" OC EF | #5 @ 16" OC | N/A | #5 @ 12" OC | 12" | N/A |
| 10'-0" | 6'-0" | #5 @ 9" OC EF | #5 @ 16" OC | #5 @ 12" OC | #5 @ 12" OC | 24" | #5 STD HOOK @ 16" OC |

NOTES:
1. COORDINATE WALL LOCATIONS AND ELEVATIONS PER CIVIL AND ARCHITECTURAL DRAWINGS.
2. CONTRACTOR TO FIELD VERIFY FOOTING INTERFERENCE WITH EXISTING BASALT ROCK. NOTIFY ARCHITECT AND SEOR IF CONFLICT OCCURS.

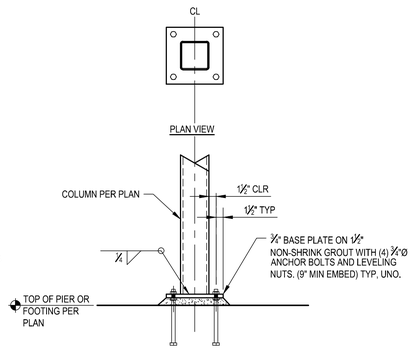
## 7 SITE RETAINING WALL SCHEDULE

SCALE: NTS



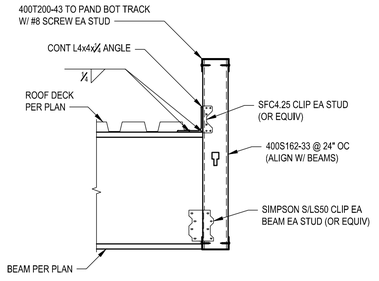

## 9 CANTILEVERED HSS CONNECTION

SCALE: NTS




## 10 STEEL HSS COLUMN BASE PLATE

SCALE: NTS




## 8 CANTILEVERED CANOPY END

SCALE: NTS

DAVID L. PEDEN STATE OF WASHINGTON 27251 STRUCTURAL ENGINEER PROFESSIONAL ENGINEER
5.2.19

DIGITALLY SIGNED:

| BY | REVISIONS | DATE |
|---|---|---|
| | | |

COFFMAN ENGINEERS
10 N. Post Street, Suite 500
Spokane, WA 99201
ph 509.328.2994
www.coffman.com

LOCATION: SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION

| ELEVATION | SEE SHEET V1.0 | HORIZONTAL | NTS |
|---|---|---|---|
| CBM NO. | N/A NAVD 88 | VERTICAL | – |
| CITY DATUM | | SCALE | |

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95

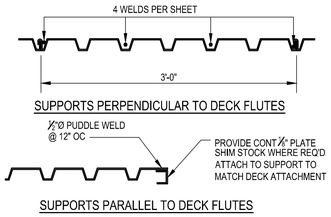
| | | |
|---|---|---|
| 5.02.2019 | DRAWN | CEP |
| 5.02.2019 | DESIGNED | KGU |
| 5.02.2019 | CHECKED | KGU |
| 5.02.2019 | APPROVED | DLP |

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

| | |
|---|---|
| PROJECT TITLE: | RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET |
| SHEET TITLE: | FRAMING DETAILS 7.3.2019 |
| TYPE OF IMPROVEMENT: | PARK |
| CITY PURCHASING NUMBER | DRAWING NUMBER: S5.2 |
| PR: OF | REVISION NO.: |

DATE: Jul 03, 2019 - 10:37am by: pedersen

FILE NAME:

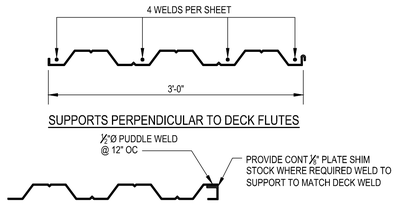



NOTES:

1. PROVIDE 4 WELDS (½"Ø PUDDLE) PER SHEET AT END BEARING, DECK LAPS AND INTERMEDIATE SUPPORTS.
2. BUTTON PUNCH ALL LONGITUDINAL SEAMS @ 12" OC AT 20GA, TOP SEAM WELD @ 12" OC AT 16-GA.
3. PROVIDE 2" MIN. END LAPS BETWEEN SHEETS.
4. SEE ARCHITECTURAL FOR SUMP PANS AT ROOF DRAINS, ETC.
5. ALWAYS PROVIDE CONTINUOUS SUPPORT TO DECK.

## 1 METAL ROOF DECK WELDS

SCALE: NTS

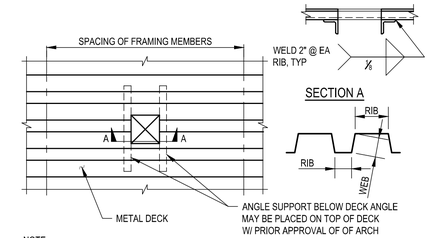



NOTES:

1. PROVIDE 4 WELDS (½"Ø PUDDLE) PER SHEET AT END BEARING, DECK LAPS AND INTERMEDIATE SUPPORTS.
2. BUTTON PUNCH ALL LONGITUDINAL SEAMS @ 24" OC.
3. PROVIDE 2" MIN. BEARING AT END OF SHEETS.
4. ALWAYS PROVIDE CONTINUOUS SUPPORT TO DECK.
5. WHERE WELDED HEADED STUDS ARE PROVIDED, PLUG WELD MAY BE OMITTED.

## 2 METAL FLOOR DECK WELDS

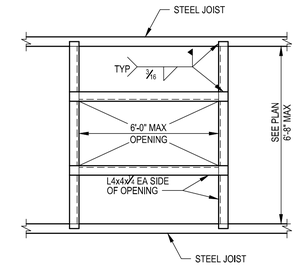
SCALE: NTS




NOTE:
AN OPENING WHICH CUTS ONE WEB, (4" MAX DIM PERPENDICULAR TO RIBS), MAY BE CUT IN DECK WITHOUT ANY SPECIAL REINFORCING, AN OPENING WHICH CUTS TWO WEBS, (8" MAX DIM PERPENDICULAR TO RIBS), WILL REQUIRE AN L2x2x⅛ EA SIDE OF OPENING AND EXTEND 12" BEYOND OPENING EA SIDE, ANY OPENING WHICH CUTS MORE THAN TWO WEBS, FRAME OPENING WITH TYPICAL ANGLE SUPPORT PRIOR TO CUTTING DECK

## 3 SMALL OPENING IN METAL ROOF DECK

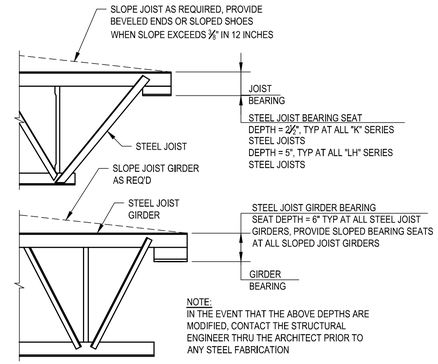
SCALE: NTS




PLAN VIEW

## 4 LARGE OPENING IN METAL ROOF DECK

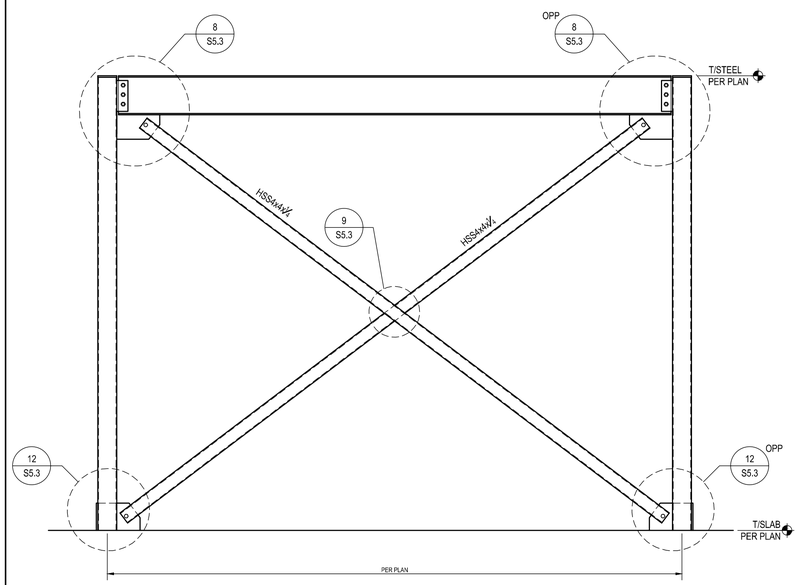
SCALE: NTS




NOTE:
IN THE EVENT THAT THE ABOVE DEPTHS ARE MODIFIED, CONTACT THE STRUCTURAL ENGINEER THRU THE ARCHITECT PRIOR TO ANY STEEL FABRICATION

## 5 STEEL JOIST & JOIST GIRDER BEARING DEPTHS

SCALE: NTS




## 6 STEEL BEAM CONNECTION TO HSS COLUMN

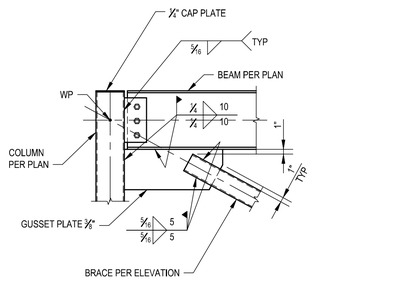
SCALE: NTS




NOTE:
WHERE CONCENTRATED LOADS ARE SUPPORTED BY JOIST CHORDS AND ARE LOCATED A DISTANCE OF MORE THAN 6" FROM A PANEL POINT, REINFORCE JOIST WITH L2x2x⅛ EXTENDING FROM PANEL POINT ON OPPOSITE CHORD.

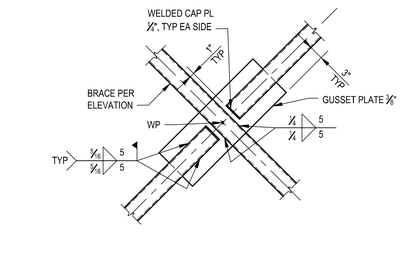
## 7 STEEL JOIST REINFORCING AT CONCENTRATED LOADS

SCALE: NTS



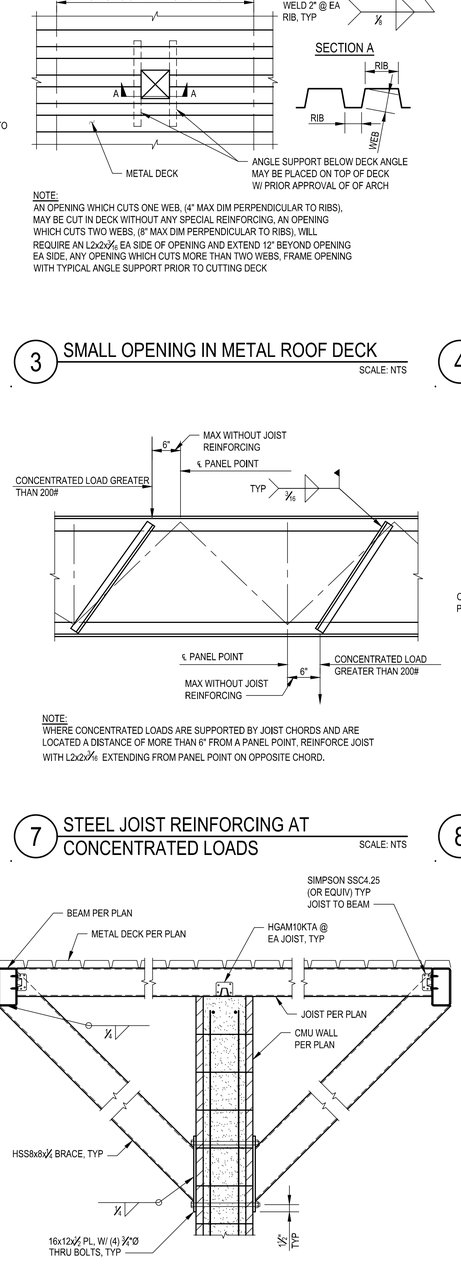

## 8 BRACE TO COL FLANGE TOP

SCALE: NTS



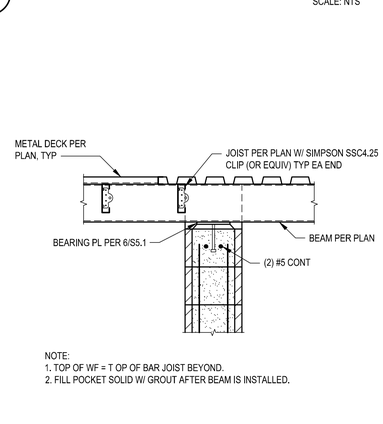

## 9 TYPICAL CROSS-BRACE CONNECTION

SCALE: NTS




## 10 ROOF EXTENSION

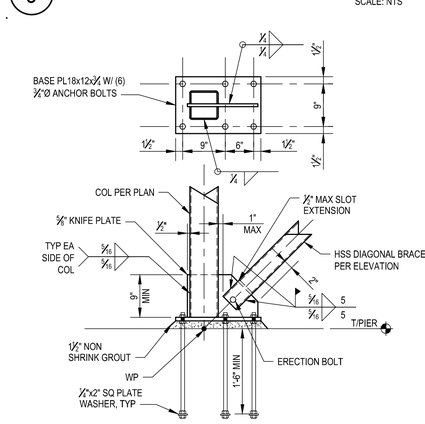
SCALE: NTS




NOTE:
1. TOP OF WF = T OP OF BAR JOIST BEYOND.
2. FILL POCKET SOLID W/ GROUT AFTER BEAM IS INSTALLED.

## 11 BEAM POCKET AT EXTENDED ROOF

SCALE: NTS




## 12 TYPICAL BRACED FRAME BASE CONNECTION

SCALE: NTS

DAVID L. PEDEN — STATE OF WASHINGTON — 27251 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
5.2.19

DIGITALLY SIGNED:

| BY | REVISIONS | DATE |
|---|---|---|

COFFMAN ENGINEERS
10 N. Post Street, Suite 500
Spokane, WA 99201
ph 509.328.2994
www.coffman.com

LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION

| ELEVATION | SEE SHEET V1.0 | HORIZONTAL | NTS |
|---|---|---|---|
| CBM NO. | N/A | VERTICAL | -- |
| | NAVD 88 | | |
| CITY DATUM | | SCALE | |

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

| | | |
|---|---|---|
| 5.02.2019 | DRAWN | CEP |
| 5.02.2019 | DESIGNED | KGU |
| 5.02.2019 | CHECKED | KGU |
| 5.02.2019 | APPROVED | DLP |

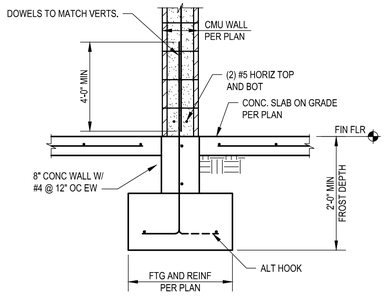
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: FRAMING DETAILS
7.3.2019

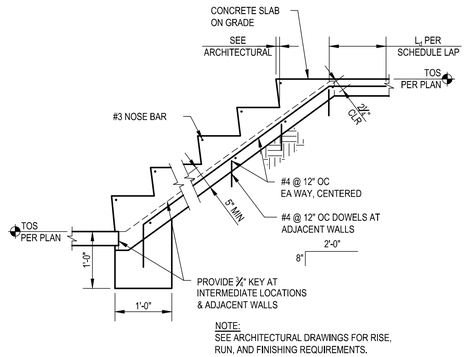
| TYPE OF IMPROVEMENT: | PARK |
|---|---|
| CITY PURCHASING NUMBER | DRAWING NUMBER |
| | S5.3 |
| PI#: | OF: REVISION NO.: |

DATE: Jul 03, 2019 - 10:37am by: pedersen
FILE NAME:




## 1 THICKENED SLAB AT CMU WALL

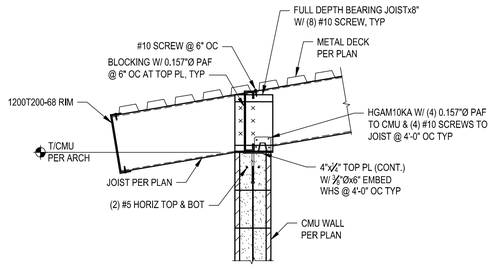
SCALE: NTS




NOTE:
SEE ARCHITECTURAL DRAWINGS FOR RISE, RUN, AND FINISHING REQUIREMENTS.

## 2 TYPICAL CONC STAIR ON GRADE

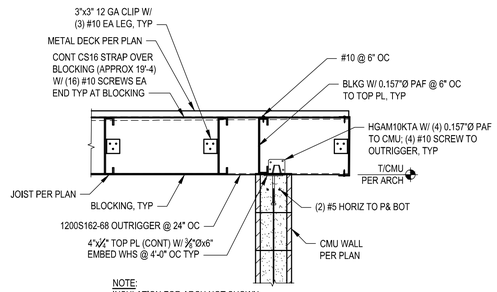
SCALE: NTS




NOTE:
INSULATION FOR ARCH NOT SHOWN

## 3 JOIST PERPENDICULAR TO CMU WALL

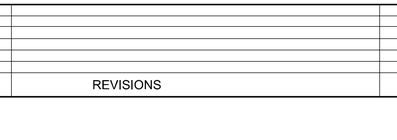
SCALE: NTS




NOTE:
INSULATION FOR ARCH NOT SHOWN

## 4 JOIST PARALLEL TO CMU WALL

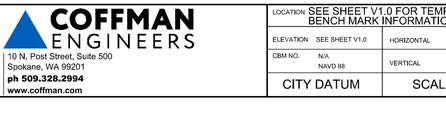
SCALE: NTS




NOTE:
INSULATION FOR ARCH NOT SHOWN

## 5 JOIST PARALLEL TO CONCRETE WALL

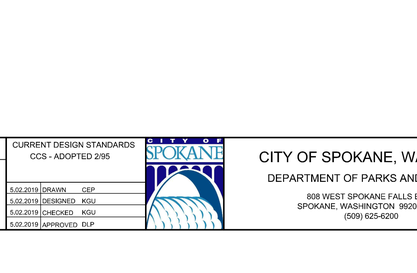
SCALE: NTS




NOTE:
INSULATION FOR ARCH NOT SHOWN

## 6 JOIST PERPENDICULAR TO CONCRETE WALL

SCALE: NTS




NOTES:
1. CONTRACTOR TO EXTENDED CONC STEM WALL AS REQUIRED TO COORDINATE CMU JOINT LOCATION W/ ADJACENT WALL.
2. NO CMU ABOVE AT SIM.

## 7 CMU WALL TO FOUNDATION

SCALE: NTS


NOTE:
LOCATE FALL PROTECTION ANCHOR PER ARCH.

## 8 FALL PROTECTION ANCHOR

SCALE: NTS

| BY | REVISIONS | DATE |
|---|---|---|
| | | |

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10 N. Post Street, Suite 500
Spokane, WA 99201
ph 509.328.2994
www.coffman.com

LOCATION: SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION

| ELEVATION | SEE SHEET V1.0 | HORIZONTAL | 1"=20' |
|---|---|---|---|
| CBM NO. | N/A<br>NAVD 88 | VERTICAL | 1"=10' |
| CITY DATUM | | SCALE | |

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
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CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

| | | |
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| 5.02.2019 | DRAWN | CEP |
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CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: PUMP HOUSE DETAILS
7.3.2019

DATE: Jul 03, 2019 - 10:37am by: pedersen

FILE NAME:

DAVID L. PEDEN
STATE OF WASHINGTON
27251
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
7-3-2019

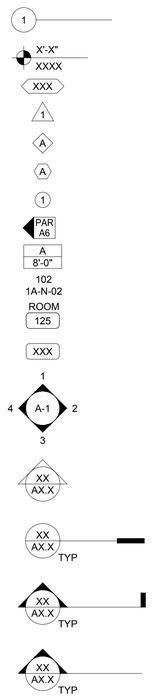
DIGITALLY SIGNED:

| TYPE OF IMPROVEMENT: PARK | |
|---|---|
| CITY PURCHASING NUMBER | DRAWING NUMBER |
| | S5.4 |
| PIP: OF | REVISION NO.: |

## Abbreviations:

| | | | |
|---|---|---|---|
| & | AND | HDWD. | HARDWOOD |
| ∠ | ANGLE | HDWR. | HARDWARE |
| ℄ | AT CENTERLINE | H.M. | HOLLOW METAL |
| Ø | DIAMETER OR ROUND | HORIZ. | HORIZONTAL |
| ⊥ | PERPENDICULAR | HR. | HOUR |
| # | POUND OR NUMBER | HT. | HEIGHT |
| A.B. | ANCHOR BOLT | IBC | INTERNATIONAL BUILDING CODE |
| ABV. | ABOVE | INST. | INSTALLATION |
| AC.B. | ACOUSTICAL BOARD | INSUL. | INSULATION |
| ACOUS. | ACOUSTICAL | INT. | INTERIOR |
| A.F.F. | ABOVE FINISH FLOOR | | |
| AGGR. | AGGREGATE | LAM. | LAMINATED |
| ALUM. | ALUMINUM | LB. | POUND |
| ANOD. | ANODIZED | LOC. | LOCATION |
| APPROX. | APPROXIMATE | | |
| ARCH. | ARCHITECTURAL | MAT. | MATERIAL |
| ASPH. | ASPHALT | MAX. | MAXIMUM |
| | | MECH. | MECHANICAL |
| BD. | BOARD | MFR. | MANUFACTURER |
| BLDG. | BUILDING | M.H. | MANHOLE |
| BLK. | BLOCK | MIN. | MINIMUM |
| BLK'G. | BLOCKING | MISC. | MISCELLANEOUS |
| BM. | BEAM | MTD. | MOUNTED |
| B.U.R. | BUILT UP ROOF | MTL. | METAL |
| CAB. | CABINET | N | NORTH |
| C.B. | CATCH BASIN | N.I.C. | NOT IN CONTRACT |
| CEM | CEMENT | NO. | NUMBER |
| CH. | CHANNEL | N.T.S. | NO TO SCALE |
| C.J. | CONTROL JOINT | | |
| CLG. | CEILING | O.C. | ON CENTER |
| CLR. | CLEAR | O/ | OVER |
| C.O. | CLEAN OUT | OH. | OPPOSITE HAND |
| COL. | COLUMN | | |
| CONC. | CONCRETE | PL. | PLATE |
| CONN. | CONNECTION | PLYWD. | PLYWOOD |
| CONSTR. | CONSTRUCTION | P.P. | POWER POLE |
| CONT. | CONTINUE | P.T. | PRESSURE TREATED |
| C.T. | CERAMIC TILE | | |
| CTR. | COUNTER | R. | RADIUS OR RISER |
| CT.SK. | COUNTER SUNK | R.C.P. | REFLECTED CEILING PLAN |
| | | R.D. | ROOF DRAIN |
| DBL. | DOUBLE | REC. | RECOMMENDED |
| DEPT. | DEPARTMENT | REF. | REFERENCE |
| DET. | DETAIL | REINF. | REINFORCED |
| DIA. | DIAMETER | REQ'D. | REQUIRED |
| DIM. | DIMENSION | RM. | ROOM |
| DN. | DOWN | | |
| DR. | DOOR | S | SOUTH |
| D.S. | DOWNSPOUT | S.C. | SOLID CORE |
| DWG. | DRAWING | SCHED. | SCHEDULE |
| | | SHT. | SHEET |
| E | EAST | SHT'G. | SHEATHING |
| EA. | EACH | SIM. | SIMILAR |
| E.I.F.S. | EXT. INSUL. & FINISH SYSTEM | SPEC. | SPECIFICATION |
| EL. | ELEVATION | SQ. | SQUARE |
| ELEC. | ELECTRICAL | STD. | STANDARD |
| ELEV. | ELEVATOR | STL. | STEEL |
| ENCL. | ENCLOSURE | STOR. | STORAGE |
| E.P. | ELECTRICAL PANEL | STRUCT. | STRUCTURAL |
| EQ. | EQUAL | SUSP. | SUSPENDED |
| EQP. | EQUIPMENT | S & V | STAIN & VARNISH |
| EXIST. | EXISTING | SVC. | SERVICE |
| EXPO. | EXPOSED | S.W. | SIDEWALK |
| EXT. | EXTERIOR | SYM. | SYMMETRICAL |
| F.D. | FLOOR DRAIN | T. | TREAD |
| F.E. | FIRE EXTINGUISHER | T.C. | TOP OF CURB |
| F.H. | FIRE HYDRANT | TEL. | TELEPHONE |
| FIN. | FINISH | T & G | TONGUE & GROVE |
| FLASH. | FLASHING | THK. | THICK |
| FLR. | FLOOR | T.O.P. | TOP OF PLATE |
| FLUOR. | FLUORESCENT | T.P. | TOP OF PAVEMENT |
| FOUND. | FOUNDATION | T.W. | TOP OF WALL |
| FRM'G. | FRAMING | TYP. | TYPICAL |
| FT. | FOOT OR FEET | | |
| FTG. | FOOTING | UNF. | UNFINISHED |
| FURR. | FURRING | U.O.N. | UNLESS OTHERWISE NOTED |
| GA. | GAUGE | VERT. | VERTICAL |
| G.C. | GENERAL CONSTRUCTION | V.I.F. | VERIFY IN FIELD |
| GL. | GLASS | | |
| GND. | GROUND | W | WEST |
| GP. | GROUP | W/ | WITH |
| GR. | GRADE | WD. | WOOD |
| GV. | GALVANIZED | WDW. | WINDOW |
| GYP. | GYPSUM | W/O | WITHOUT |
| | | W.P. | WATERPROOF |
| H.C. | HOLLOW CORE | W.R. | WATER RESISTANT |
| H.B. | HOSE BIB | WRB | WEATHER RESISTANT BARRIER |
| HDCP. | HANDICAP | WSCT. | WAINSCOT |
| | | WT. | WEIGHT |

## Symbols:



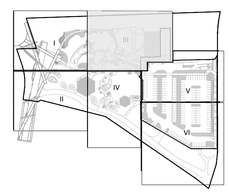

## General Project Notes:

1. THE SCOPE OF WORK SHALL BE DETERMINED BY ALL CONSTRUCTION DOCUMENTS, PERMIT DOCUMENTS AND CONTRACTS NEGOTIATED WITH THE OWNER.
2. DRAWINGS AND ASSOCIATED CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE PENDING PERMIT REVIEW BY GOVERNING MUNICIPALITY.
3. ALL CONSTRUCTION SHALL BE CONSTRUCTED FROM APPROVED PERMIT DRAWINGS ISSUED BY THE GOVERNMENTAL AGENCY HAVING JURISDICTION. DOCUMENTS IDENTIFIED "PRELIMINARY" , "WORK IN PROGRESS", "NOT FOR CONSTRUCTION", "BUILDING DEPARTMENT REVIEW SET", AND "BID SET" SHALL NOT BE USED FOR CONSTRUCTION.
4. ALL NEW CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES LISTED IN THE BUILDING CODE SUMMARY AS WELL AS ALL RULES AND REGULATIONS SET FORTH BY THE GOVERNMENTAL AGENCY HAVING JURISDICTION.
5. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR FOR THE DURATION OF CONSTRUCTION TO MAINTAIN THE CONSTRUCTION SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL HEALTH AND SAFETY STANDARDS AT ALL TIMES.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL INFORMATION ON THE CONSTRUCTION DOCUMENTS, PERMIT DOCUMENTS, CHANGE ORDERS, AND SUPPLEMENTAL INFORMATION TO ALL SUBCONTRACTORS AND TRADES. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL WORK. FULLY COORDINATE WITH OTHER PARTIES THE INSTALLATION REQUIREMENTS OF ALL ITEMS OR MATERIALS TO BE FURNISHED AND/OR INSTALLED BY OTHERS PRIOR TO INSTALLATION.
7. ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS, SPECIFICATIONS, AND GENERAL CONSTRUCTION PRACTICES.
8. ALL WORK SHALL BE ERECTED AND INSTALLED PLUMB, LEVEL, SQUARE AND TRUE, UNLESS NOTED OTHERWISE.
9. FURNISH AND INSTALL BLOCKING OR BACKING FOR WALL OR CEILING MOUNTED MATERIALS IN FULL ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS OR REQUIREMENTS PRIOR TO INSTALLATION.
10. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTION APPROVALS FOR SUBSTANTIAL COMPLETION.
11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AFFECTING THE WORK PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED OF EXISTING CONDITIONS DIFFER FROM THE CONSTRUCTION DOCUMENTS.
12. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, SHORING, BRACING SAFETY AND INSURANCE IN CONNECTION WITH ALL WORK. ALL NECESSARY TEMPORARY CONSTRUCTION REQUIRED TO COMPLETE THE PROJECT SHALL BE INCLUDED IN THE CONTRACTOR'S PRICE.
13. REPETITIVE FEATURE(S) NOT NOTED ON THE DRAWINGS SHALL BE COMPLETELY FURNISHED AND INSTALLED AS IF NOTED IN FULL.
14. ALL DIMENSIONS ARE TO CENTER LINE OF STUD OR GRID LINE UNLESS NOTED OTHERWISE.
15. DIMENSIONS IDENTIFIED "CLEAR" OR "CLR" SHALL BE MAINTAINED AND SHALL ACCOMMODATE FOR THICKNESS OF ALL FINISHES INCLUDING CARPET, CERAMIC TILE, VCT, GYPSUM BOARD, ETC.
16. GRID LINES INDICATE THE CENTER OF PRIMARY COLUMNS OR FACE OF CORE WALL ASSEMBLY U.N.O. SEE STRUCTURAL DRAWINGS FOR EXACT LOCATION & SIZE OF INDIVIDUAL COLUMNS.
17. ALL WALLS ARE TO INTERSECT AT 45° OR 90° U.N.O.
18. MECHANICAL AND ELECTRICAL INFORMATION SHOWN ON ARCHITECTURAL DRAWINGS IS PROVIDED FOR CLARITY AND/OR GENERAL LOCATION PURPOSES ONLY. SEE MECHANICAL AND ELECTRICAL DRAWINGS.
19. ALL INTERRUPTIONS OF MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR TENANT A MINIMUM OF 24 HOURS PRIOR TO INTERRUPTION.
20. ROOM AND DOOR NUMBERS SHOWN ON DRAWINGS ARE FOR CONSTRUCTION PURPOSES ONLY.
21. ALL WOOD IN CONTACT WITH CONCRETE, MASONRY OR EARTH SHALL BE PRESERVATIVE TREATED WOOD.
22. DOORS JAMBS ARE LOCATED 3" OFF OF ADJACENT WALL U.O.N.
23. ALL MATERIALS STORED ON THE SITE, EXISTING CONSTRUCTION AND FINISHED CONSTRUCTION SHALL BE PROTECTED FROM WEATHER, VANDALISM, AND OTHER CONSTRUCTION ACTIVITIES TO PREVENT DAMAGE AND DETERIORATION UNTIL SUBSTANTIAL COMPLETION. FAILURE TO PROTECT MAY BE CAUSE FOR REJECTION OF WORK.
24. ANY BRAND NAMES OR MANUFACTURERS SHOWN IN THE DRAWINGS REPRESENT THE BASIS OF DESIGN AND THE STANDARD OF QUALITY. APPROVED EQUALS WILL BE ACCEPTED UPON REVIEW AND APPROVAL OF THE ARCHITECT OR OWNER.

## Sheet Index:



KEY PLAN




10020
REGISTERED ARCHITECT
DAVID E. HIPP
STATE OF WASHINGTON

DIGITALLY SIGNED:

| BY | REVISIONS | DATE |
|---|---|---|
| | | |

B W A BERNARDO | WILLS ARCHITECTS PC

LOCATION: BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84)
NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'

| | |
|---|---|
| ELEVATION 1734.64' @ CAP #CP9 | HORIZONTAL |
| CBM NO. 43N, 44W NAVD 88 | VERTICAL |
| CITY DATUM | SCALE |

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CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

| | | |
|---|---|---|
| 3.15.19 | DRAWN | CLK |
| 3.15.19 | DESIGNED | DH |
| | CHECKED | |
| | APPROVED | |

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: SYMBOLS, GENERAL NOTES

7.3.2019

DATE: Jun 25, 2019 - 2:27pm by: ckilmer

| | |
|---|---|
| TYPE OF IMPROVEMENT: PARK | |
| CITY PURCHASING NUMBER | DRAWING NUMBER |
| | GA .1 |
| P#: 1 OF 32 | REVISION NO.: |

FILE NAME:

## Project Information

| | |
|---|---|
| PROJECT NAME: | NORTH BANK PARK - MAINTENANCE / OPERATIONS BUILDING |
| PROJECT ADDRESS: | 832 NORTH HOWARD ST<br>SPOKANE, WA 99201 |
| PROPERTY OWNER: | CITY OF SPOKANE<br>808 WEST SPOKANE FALLS BLVD<br>SPOKANE, WA 99201 |
| PARCEL NUMBER: | 35181.0032 |
| EXISTING LOT USE: | PARK |
| PROPOSED USE: | PARK |

## Zoning

| | |
|---|---|
| COUNTY ZONE: | DTG - DOWNTOWN GENERAL |
| LAND USE DESIGNATION: | DOWNTOWN |
| HISTORIC DISTRICT: | NONE |

## CHAPTER 1: Administration Requirements

APPLICABLE CODES AS ADOPTED AND AMENDED BY AHJ.
2015 International Building Code (IBC) with ICC/ANSI A 117.1-2009
2015 International Existing Building Code
2015 International Residential Code (IRC)
2015 Washington State Energy Code (WSEC)
2015 Uniform Plumbing Code (UPC)
2015 International Mechanical Code Chapter 51-52 WAC
2014 National Electric Code
The rules and regulations of the State Department of Labor and Industries, contained in Chapter 296-46B WAC (except WAC 296-46B-900, WAC 296-46B-905 and WAC 296-46B-910) are adopted as amendments and interpretations of the National Electrical Code.
2015 International Fire Code (IFC) Chapter 51-54 WAC
2012 National Fuel Gas Code ANSI 223.1/NFPA 54
2015 International Fuel Gas Code
2008 Liquefied Petroleum Code NFPA 58

[A] 107.3.4.1 DEFERRED SUBMITTALS
WHERE APPLICABLE, IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO FURNISH TO THE ISSUING JURISDICTION FOR REVIEW THE FOLLOWING DESIGN/BUILD AND DEFERRED INFORMATION WITH PROFESSIONAL STAMP AND CALCULATIONS AS MAY BE REQUIRED:

A. FIRE PROTECTION SYSTEM
B. FIRE ALARM SYSTEMS
C. EXTERIOR TENANT AND SITE SIGNAGE
D. FABRICATED STEEL SHOP DRAWINGS (COLUMNS, JOIST & DECK, RAILINGS & GUARDS, ETC.)
E. EXTERIOR INSULATION & FINFISH SYSTEMS
F. MASONRY VENEER SYSTEMS
G. MANUFACTURED STONE VENEER SYSTEMS
H. THIRD-PARTY ENERGY CODE COMPLIANCE REVIEW/CONCURANCE
I. SECURITY ALARM SYSTEM, PHONE/CABLE TV AND DATA SYSTEMS PROVIDED BY OWNER. GC TO NOTIFY TENANT NO LESS THAN 14 DAYS PRIOR TO CLOSING WALLS TO ALLOW TENANT OPPORTUNITY TO COORDINATE AND INSTALL WORK AND RELATED EQUIPMENT.

## CHAPTER 3: Use and Occupancy

**SECTION 302 CLASSIFICATION:**

| LEVEL | ROOM OR SPACE | DESCRIPTION | OCCUPANCY GROUP |
|---|---|---|---|
| MAIN LEVEL | WORK SHOP | MOTOR VEHICLE STORAGE | S-2 STORAGE |
| MAIN LEVEL | WORK SHOP | LIGHT MACHINE SHOP | S-1 STORAGE |
| MAIN LEVEL | MATERIAL STORAGE | STORAGE OF LAWN MAINTENANCE MATERIALS | S-1 STORAGE |
| SECOND LEVEL | CREW ROOM | OFFICE FUNCTIONS | B OFFICE |
| SECOND LEVEL | STORAGE | MATERIAL STORAGE | S-1 STORAGE |

## CHAPTER 5: Allowable Height and Area

| | | |
|---|---|---|
| TABLE 504.3 | BUILDING HEIGHT: | 55' |
| | PROPOSED HEIGHT: | 31'-2" |
| TABLE 504.4 | NUMBER OF STORIES: | 2 |
| | PROPOSED NUMBER OF STORIES: | 2 |
| TABLE 506.2a | ALLOWABLE AREA PER FLOOR: | 17,500 SF |
| | PROPOSED MAIN FLOOR AREA: | 6,485 S.F. |
| | PROPOSED SECOND FLOOR AREA: | 2,444 S.F. |
| | PROPOSED CANOPY AREA: | 2,147 S.F. |
| | TOTAL AREA: | 11,076 S.F. |
| SECTION 508.3 | NONSEPARATED OCCUPANCY | |

## CHAPTER 6: Types of Construction

**TABLE 601 FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS):**

| BUILDING ELEMENTS | TYPE II-B (NON-SPRINKLED) |
|---|---|
| PRIMARY STRUCTURAL FRAME | 0 |
| EXTERIOR BEARING WALLS | 0 |
| INTERIOR BEARING WALLS | 0 |
| INTERIOR NONBEARING WALLS | 0 |
| FLOOR CONSTRUCTION | 0 |
| ROOF CONSTRUCTION | 0 |

FIRE SEPARATION
NONE REQUIRED

## CHAPTER 9: Fire Protection Systems

**906.1 PORTABLE FIRE EXTINGUISHERS:** PORTABLE FIRE EXTINGUISHERS ARE REQUIRED IN GROUP B AND S OCCUPANCIES.

**906.3 SIZE AND DISTRIBUTION:** LOW HAZARD OCCUPANCIES MUST PROVIDE FIRE EXTINGUISHERS FOR EVERY 11,250 S.F. OF FLOOR AREA. MAX TRAVEL DISTANCE FROM ANY POINT IN THE BUILDING IS 75 FEET.

**907.1.2 FIRE ALARM SHOP DRAWINGS:** FIRE ALARM SHOP DRAWINGS ARE TO BE REVIEWED AND APPROVED BY THE AHJ PRIOR TO INSTALLATION.

## CHAPTER 10: Occupant Load & Means of Egress

TABLE 1004.1.2 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

| ROOM / SPACE NAME | ROOM / SPACE FUNCTION | ROOM / SPACE AREA | SQ.FT. / OCCUPANT | OCCUPANT LOAD |
|---|---|---|---|---|
| MAIN LEVEL (EXIT DISCHARGE) | | | | |
| AREA101 | MAINTENANCE | 3,473 SF | 100 | 35 |
| AREA 102 | MAINTENANCE | 1,372 SF | 100 | 14 |
| AREA 103 | STORAGE | 633 SF | 500 | 1 |
| RM 104 | RESTROOM | 71 SF | 100 | 1 |
| RM 105 | RESTROOM | 71 SF | 100 | 1 |
| RM 106 | RESTROOM | 71 SF | 100 | 1 |
| RM 107 | RESTROOM | 71 SF | 100 | 1 |
| RM 108 | JANITOR | 54 SF | 100 | 1 |
| SECOND LEVEL | | | | |
| AREA 201 | STORAGE | 1,299 SF | 500 | 3 |
| AREA 202 | OFFICE | 1,128 SF | 100 | 11 |
| RM 203 | JANITOR | 37 SF | 100 | 1 |
| RM 204 | RESTROOM | 74 SF | 100 | 1 |
| | | | TOTAL BLDG OCCUPANT LOAD | 71 Occ. |

TABLE 1006.2.1 SPACES w/ ONE EXIT OR EXIT ACCESS DOORWAY

| OCCUPANCY | MAX. OCCUPANT LOAD | MAX. COMMON PATH OF EGRESS TRAVEL (feet) | | |
|---|---|---|---|---|
| | | WITHOUT SPRINKLES SYSTEM. (feet) | | WITH SPRINKLERS |
| | | OL < 30 | OL > 30 | |
| A, E, M | 49 | 75 | 75 | 75 |
| B | 49 | 100 | 75 | 100 |
| F | 49 | 75 | 75 | 100 |
| S | 29 | 100 | 75 | 100 |

1006.2.1 EGRESS BASED ON OCCUPANT LOAD AND COMMON PATH OF EGRESS TRAVEL DISTANCE. TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1.

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE

| OCCUPANCY | MAX. EXIT TRAVEL DISTANCE (feet) | |
|---|---|---|
| | WITHOUT SPRINKLER SYSTEM, (feet) | WITH SPRINKLER SYSTEM, (feet) |
| S-1 | 200 | 250 |
| S-2 | 300 | 400 |
| B | 200 | 300 |

1017.2 EXIT ACCESS TRAVEL DISTANCE SHALL NOT EXCEED THE VALUES GIVEN IN TABLE 1017.2

TABLE 1006.3.1 MINIMUM NUMBER OF EXITS PER STORY

| OCCUPANT LOAD PER STORY | MINIMUM NUMBER OF EXITS OR ACCESS TO EXISTS FROM STORY | PROVIDED NUMBER OF EXISTS FROM STORY | |
|---|---|---|---|
| | | FLOOR | PROVIDED EXITS |
| 1-500 | 2 | - | - |
| 501-1,000 | 3 | MAIN LEVEL | 2 |
| **MORE THAN 1,000** | 4 | 2nd LEVEL | 2 |

1006.3.1 EGRESS BASED ON OCCUPANT LOAD. EACH STORY AND OCCUPIED ROOF SHALL HAVE THE MINIMUM NUMBER OF EXITS, OR ACCESS TO EXITS, AS SPECIFIED IN TABLE 1006.3. 1. A SINGLE EXIT OR ACCESS TO A SINGLE EXIT SHALL BE PERMITTED IN UCjORDANCE WITH SECTION 1006.3.2. THE REQUIRED NUMBER OF EXITS, OR EXIT ACCESS STAIRWAYS OR RAMPS PROVIDING ACCESS TO EXITS, FROM ANY STORY OR OCCUPIED ROOF SHALL BE MAINTAINED UNTIL ARRIVAL AT THE EXIT DISCHARGE OR A PUBLIC WAY.

1005.3.2 OTHER EGRESS COMPONENTS. THE CAPACITY, IN OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY THE OCCUPANT LOAD SERVED BY MULTIPLYING SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH (5.1 MM) PER OCCUPANT.

1005.3.1 THE IN INCHES, OF MEANS OF EGRESS STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH STAIRWAYS BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.3 INCH PER OCCUPANT. WHERE STAIRWAYS SERVE MORE THAN ONE STORY, ONLY THE OCCUPANT LOAD OF EACH STORY CONSIDERED INDIVIDUALLY SHALL BE USED IN CALCULATING THE REQUIRED CAPACITY OF THE STAIRWAYS SERVING THAT STORY.

## WAC 2900: Plumbing Systems

TABLE 2900.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

| TOTAL BUILDING OCCUPANTS SERVED | | | 69 | | | | |
|---|---|---|---|---|---|---|---|
| TOILETS | | | | LAVITORIES | | | |
| GENDER | OCCUPANTS | OCCUPANTS PER FIXTURE | REQ'D FIXTURES | GENDER | OCCUPANTS | OCCUPANTS PER FIXTURE | REQ'D FIXTURES |
| MEN | 34.5 Occ. | 100 | 1 | MEN | 34.5 Occ. | 100 | 1 |
| WOMEN | 34.5 Occ. | 100 | 1 | WOMEN | 34.5 Occ. | 100 | 1 |
| TOTAL FIXTURES REQUIRED: | | | 2 | TOTAL FIXTURES REQUIRED: | | | 2 |
| TOTAL FIXTURES PROVIDED: | | | 5 | TOTAL FIXTURES PROVIDED: | | | 5 |

* IN LIEU OF GENDER SEGREGATED RESTROOM FACILITIES, ACCESSIBLE SINGLE-OCCUPANT GENDER-NUTRAL RESTROOMS ARE PROVIDED FOR COMPLIANCE WITH WAC 162-32-060 'GENDER-SEGREGATED FACILITIES.'

2902.5.1 DRINKING FOUNTAIN NUMBER. OCCUPANTS LOADS OVER 30 SHALL HAVE ONE DRINKING FOUNTAIN FOR THE FIRST 150 OCCUPANTS, THEN ONE PER EACH ADDITIONAL 500 OCCUPANTS.
EXCEPTIONS:
1. SPORTING FACILITIES WITH CONCESSIONS SEVINGS DRINKS SHALL HAVE ONE DRINKING FOUNTAIN FOR EACH 1,000 OCCUPANTS.
2. A DRINKING FOUNTAIN NEED NOT BE PROVIDED IN DRINKING OR DINING ESTABLISHMENTS

2902.5.2 MULTISTORY BUILDINGS: DRINKING FOUNTAINS SHALL BE PROVIDED ON EACH FLOOR HAVING MORE THAN 30 OCCUPANTS IN SCHOOLS, DORMITORIES, AUDITORIUMS THEATERS, OFFICE AND PUBLIC BUILDINGS.

2902.5.4 BOTTLE FILLING STATIONS. BOTTLE FILLING STATIONS SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 2902.5.4.1 THROUGH 2902.5.4.3.

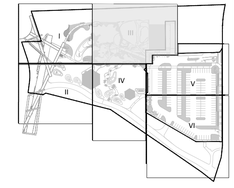
2902.5.4.1 GROUP E OCCUPANCIES. IN GROUP E OCCUPANCIES WITH AN OCCUPANT LOAD OVER 30, A MINIMUM OF ONE BOTTLE FILLING STATION SHALL BE PROVIDED ON EACH FLOOR. THIS BOTTLE FILLING STATION MAY BE INTEGRAL TO A DRINKING FOUNTAIN.

2902.2.5.4.2 SUBSTITUTION. IN ALL OCCUPANCIES THAT REQUIRE MORE THAN TWO DRINKING FOUNTAINS PER FLOOR OR SECURED AREA, BOTTLE FILLING STATIONS SHALL BE PERMITTED TO BE SUBSTITUTED FOR UP TO 50 PERCENT OF THE REQUIRED NUMBER OF DRINKING FOUNTAINS.

2902.5.4.3 ACCESSIBILITY. AT LEST ONE OF THE REQUIRED BOTTLE FILLING STATIONS SHALL BE LOCATED IN ACCORDANCE WITH SECTION 309 ICC A117.1.

2902.9 SMALL OCCUPANCIES. DRINKING FOUNTAINS SHALL NOT BE REQUIRED FOR AN OCCUPANT LOAD OF 15 OR FEWER.

KEY PLAN




10020
REGISTERED ARCHITECT
DAVID E. HIPP
STATE OF WASHINGTON

DIGITALLY SIGNED:

| BY | REVISIONS | DATE |
|---|---|---|

B W A BERNARDO | WILLS ARCHITECTS PC

LOCATION: BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84)
NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'

| | | |
|---|---|---|
| ELEVATION 1734.64' @ CAP #CP9 | HORIZONTAL | BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" |
| CBM NO. 43N, 44W NAVD 88 | VERTICAL | IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY |
| CITY DATUM | SCALE | |

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

| | |
|---|---|
| 3.15.19 | DRAWN CLK |
| 3.15.19 | DESIGNED DH |
| | CHECKED |
| | APPROVED |

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: Code Summary

7.3.2019

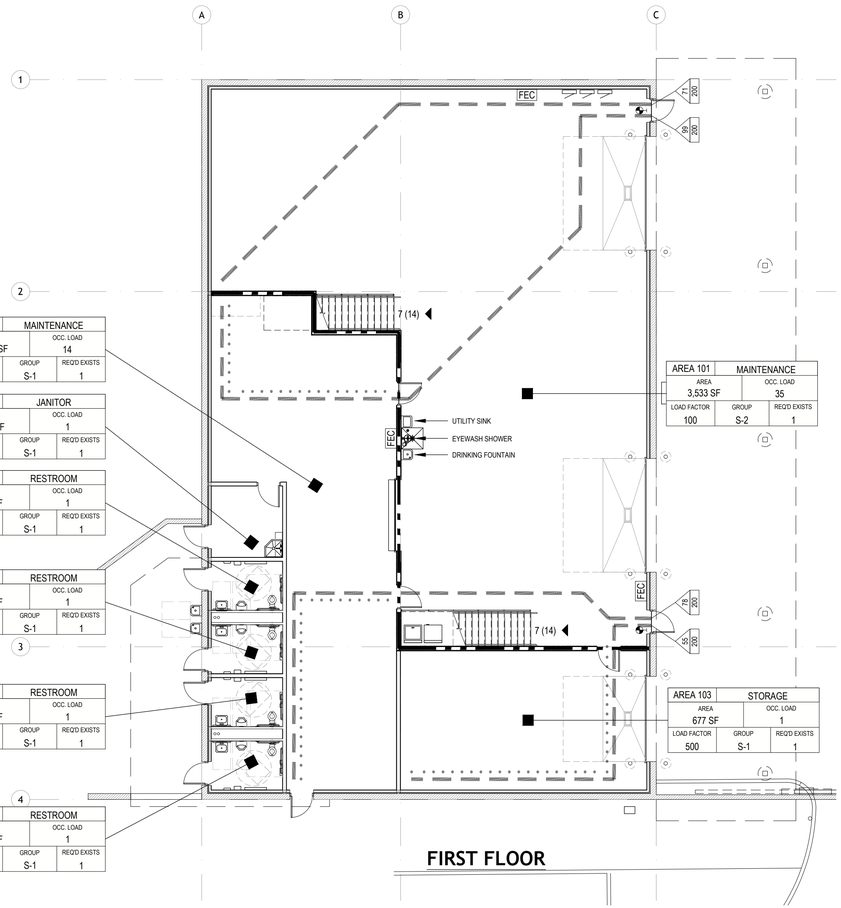
DATE: Jun 25, 2019 - 2:27pm by: ckilmer

| TYPE OF IMPROVEMENT: PARK | |
|---|---|
| CITY PURCHASING NUMBER | DRAWING NUMBER |
| | GA .2 |
| P#: 2 OF 32 | REVISION NO.: |

FILE NAME:

## Legend

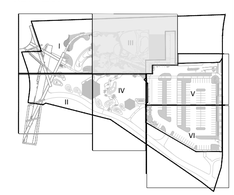
- 2 HOUR RATED WALL ASSEMBLY
- COMMON PATH OF EGRESS TRAVEL. SEE TABLE FOR MAXIMUM ALLOWABLE TRAVEL DISTANCE BASED ON OCCUPANCY GROUP, SPRINKLER CONDITION AND OCCUPANT LOAD
- PATH OF EXIT ACCESS TRAVEL. SEE TABLE FOR MAXIMUM ALLOWABLE TRAVEL DISTANCE BASED ON OCCUPANCY GROUP, SPRINKLER CONDITION AND OCCUPANT LOAD
- ## / ## — INDICATES TERMINATION OF TRAVEL DISTANCE SEGMENT; ALLOWABLE LENGTH OF EXIT ACCESS TRAVEL DISTANCE (IN FEET); LENGTH OF EXIT ACCESS TRAVEL DISTANCE SEGMENT (IN FEET)
- # — EXIT FROM ROOMS, UNITS. NUMBER INDICATES THE CALCULATED ACCUMULATED LOAD FROM THAT ROOM OR EXIT. A NUMBER IN PARENTHESES INDICATES THE MAXIMUM ACCUMULATED LOAD FROM ANY STORY ABOVE/BELOW.
- EXIT SIGNAGE. (E) WHERE EXISTING.
- AOR — 30 x 48 AREA OF REFUGE (WHEN REQUIRED)
- FEC — FIRE EXTINGUISHER CABINET




OE.1 Occupancy & Exiting Plan
SCALE: 3/32"=1'-0"

NORTH

KEY PLAN

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NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: Occupancy and Exiting Plan

7.3.2019

DATE: Jun 25, 2019 - 2:27pm by: ckilmer

TYPE OF IMPROVEMENT: PARK
CITY PURCHASING NUMBER | DRAWING NUMBER: GA .3
P#: 3 OF 32 | REVISION NO.:
FILE NAME: